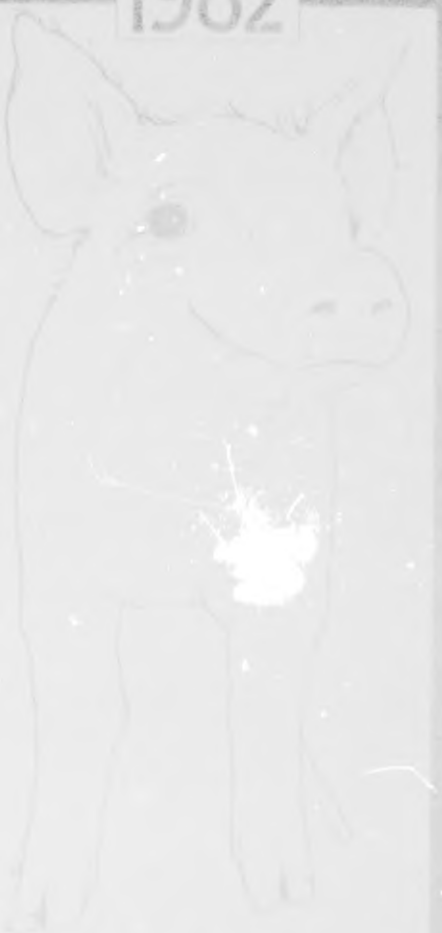
1982



ECONOMICS OF FARROW-WEAN HOG PRODUCTION IN ALBERTA

Alberta
AGRICULTURE

Copies of this publication may be obtained from:

Print Media Branch
Alberta Agriculture
7000 – 113 Street
Edmonton, Alberta, T6H 5T6
OR
Alberta Agriculture's district offices

1984 10 2M

ECONOMICS OF FARROW-WEAN HOG PRODUCTION IN ALBERTA, 1982

BY

CARLYLE ROSS AND ANN BOYDA

PRODUCTION AND RESOURCE ECONOMICS BRANCH
ECONOMICS SERVICES DIVISION
ALBERTA AGRICULTURE
JUNE, 1984

ACKNOWLEDGEMENTS

The authors would like to express their appreciation to all who contributed in the undertaking and completion of this report. Foremost, we would like to thank all the study participants for their interest and willingness to provide valuable data. Special thanks are extended to the Alberta Pork Producers' Marketing Board, Mr. Fred Schuld and the regional swine specialists for their support and encouragement throughout the study. Sincere thanks are also due to the support staff, in particular Ms. Deb Bosse and Ms. Shirley Sommert Ogden for their diligent efforts to ensure a job well done. Finally, we would like to thank the field staff for the assiduous manner in which they conducted the field surveys.

TABLE OF CONTENTS

	PAGE
ACKNOWLEDGEMENTS	i
LIST OF TABLES	iii
LIST OF FIGURES	iv
LIST OF GRAPHS	v
SECTION	
I. INTRODUCTION	
Background	1
Objectives	1
Source of Data	1
Outline of Report	2
II. SURVEY OF HOG PRODUCTION IN ALBERTA	
Description of Survey	3
Some Characteristics of Finishing Farms	6
Age and Hog Farming Experience	6
Ownership	7
Farm Size	7
Breeding and Farrowing	8
Death-loss	9
Facilities	9
Record Keeping	11
III HOG PRODUCTION AND SIZE OF ENTERPRISE	12
IV ANALYSIS OF INVESTMENT AND LABOUR COSTS	
Current Market Value of Fixed Assets	17
Depreciation	20
Interest Paid on Capital Loans	23
Labour Use and Costs	23
V FEED AND CASH COSTS	
Feed Costs	31
Other Cash Costs	33
Total Cash Costs	34
VI SUMMARY OF RETURNS AND COSTS	35
VII SUMMARY AND CONCLUSION	
Summary	42
Conclusion	49
APPENDIX A	52
APPENDIX B	65

LIST OF TABLES

TABLE		PAGE
1	Distribution of Study Participants by Region, 1982 . . .	4
2	Distribution of Study Participants by Size of Marketings, 1982	6
3	Summary of Production for Farrow-Wean Enterprises by Region, Alberta, 1982	13
4	Summary of Production for Farrow-Wean Enterprises by Size, Alberta, 1982	15
5	Current Market Value of Fixed Assets for Farrow-Wean Enterprises by Region, Alberta, 1982	18
6	Current Market Value of Fixed Assets for Farrow-Wean Enterprises by Size, Alberta, 198	19
7	Average Annual Depreciation of Fixed Assets for Farrow-Wean Enterprises by Region, Alberta, 1982 . .	21
8	Average Annual Depreciation of Fixed Assets for Farrow-Wean Enterprises by Size, Alberta, 1982 . . .	22
9	Allocation of Labour on Farrow-Wean Enterprises, Alberta, 1982	24
10	Labour Use on Farrow-Wean Enterprises by Region, Alberta, 1982	26
11	Labour Use on Farrow-Wean Enterprises by Size Alberta, 1982	27
12	Average Labour Costs for Farrow-Wean Enterprises by Region, Alberta, 1982	29
13	Average Labour Costs for Farrow-Wean Enterprises by Size, Alberta, 1982	29
14	Estimated Cash Costs for Farrow-Wean Enterprises by Region, Alberta, 1982	32
15	Estimated Cash Costs for Farrow-Wean Enterprises by Size, Alberta, 1982	32
16	Estimated Returns and Costs for Farrow-Wean Enterprises by Region, Alberta, 1982	36
17	Estimated Returns and Costs for Farrow-Wean Enterprises by Size, Alberta, 1982	39

LIST OF FIGURES

FIGURE		PAGE
1	Regional Divisions of Farrow-Wean Enterprises in Alberta	5

LIST OF GRAPHS

GRAPHS		PAGE
1a	Division of Farrow-Wean Costs from each Income Dollar: Provincial Average	50
1b	Division of Farrow-Wean Costs from each Income Dollar: Farms Selling 1,000-1,999 Weaners per Year	50

SECTION I

INTRODUCTION

Background

The Production and Resource Economics Branch of Alberta Agriculture initiated a three year study of the economics of farrow-wean hog production in the spring of 1983. This study was undertaken in response to requests of farm clients for more accurate and up-to-date data on the economics of weaner production. This report is based on the 1982 production year.

Objectives

The main purpose of this study is to provide an accurate account of input costs and the economics of farrow-wean hog production in Alberta. More specific objectives of the study are:

1. To determine the level of investment associated with weaner production in Alberta;
2. To determine the different inputs used and quantities required in weaner production;
3. To determine the costs/returns, profitability, and relative productivity of weaner production;
4. To provide a personal and detailed business analysis to each study participant, and to give him the opportunity to compare the performance of his hog enterprise with that of other producers by region, size class, and the province as a whole.

Source of Data

Swine specialists across Alberta provided the branch with names of several farrow-wean producers. These producers were the primary source

of data for this report. Secondary data were obtained from the Annual Livestock Review published by Agriculture Canada, and statistical reports from Alberta Agriculture.

Outline of Report

This 1982 report emphasizes the overall provincial production situation as well as comparisons by regional and size classes. It is divided into seven sections. Section II presents some general characteristics of the hog enterprises studied such as average age and farming experience of operators, farm proprietorship, total farmed acreage, size restrictions, death-loss, and facilities. Section III provides a more in-depth analysis of production describing head handled, production weight, hog indexes, purchase weights of weaners, and feed use. Section IV consists of the analysis of investment and labour costs associated with hog production, while feed and other cash costs are examined in Section V. Section VI contains the summary of returns and costs. It is in the latter section that gross margins and profitability of the hog enterprise are evident. The final Section VII forms the overall summary and conclusion to this report.

A detailed inventory of fixed assets, their current market value, the associated depreciation and operating costs are given in Appendix A. Appendix B contains all of the estimates of inputs used, input costs, hog income, and a summary of the productive performance of the farrow-wean hog enterprises studied.

SECTION II

SURVEY OF HOG PRODUCTION IN ALBERTA

Description of Survey

The Production and Resource Economics Branch of Alberta Agriculture has recently completed a series of studies of the economics of farrow-finish and finishing hog production in Alberta. These studies were initiated in the fall of 1980; reports were published for the 1980, 1981, and 1982 production years. This report on the economics of farrow-wean production describes the economic performance of farrow-wean enterprises during the 1982 production year, the first report of a three-year study. The survey stems from farm client requests for more complete information on all aspects of hog production in Alberta.

Names of farrow-wean producers were obtained from the regional swine specialists. These producers were contacted by the branch, and 26 producers were individually interviewed by field staff to obtain detailed information about their enterprises. The questionnaires requested information regarding the size of enterprises, value of investment and associated costs, all cash costs including hired labour and feed, sales/-receipts, production levels, and some general characteristics of the farm.

Each participant received a detailed analysis of his farrow-wean enterprise. The results contained an analysis of the capital assets, production inputs, level of production, and the returns and costs associated with the enterprise. Participants had the opportunity to review their individual results and to compare the performance of their operation with provincial, regional and size class averages.

Table 1 indicates the four regions identified for this study. Participation closely reflected availability of the farrow-wean enterprises in the regions identified. The southern region contained 19.2 per cent of the participants. The distribution of producers in the central

region, Region III, was 15.4 per cent; Regions II and IV contained 26.9 and 38.5 per cent of the study participants, respectively[1].

TABLE 1: DISTRIBUTION OF STUDY PARTICIPANTS BY REGION, 1982

Region	Census Division	Participants	
		Number	Per Cent
I	1, 4, 2, 5, 3, 6, 9	5	19.2
II	7, 10	7	26.9
III	8, 11	4	15.4
IV	12, 13, 14, 15	10	38.5
ALBERTA		26	100

The percentage distribution of producers by the number of marketings is presented in Table 2. The majority of the participants, 30.8 per cent of the sample , marketed between 500 to 999 weaners per year. The producers in the top two size classes comprising, 19.2 per cent of the sample , marketed 57.1 per cent of all the weaners sold by participants in the study. Those producers marketing less than 500 weaners per year, 38.4 per cent of the sample, marketed only 6.4 per cent of the weaners.

[1] Compared to the farrow-finish and finishing reports, Region I is a combination of I, II and III, Regions II and III correspond to IV and V, respectively, and Region IV is VI and VII.

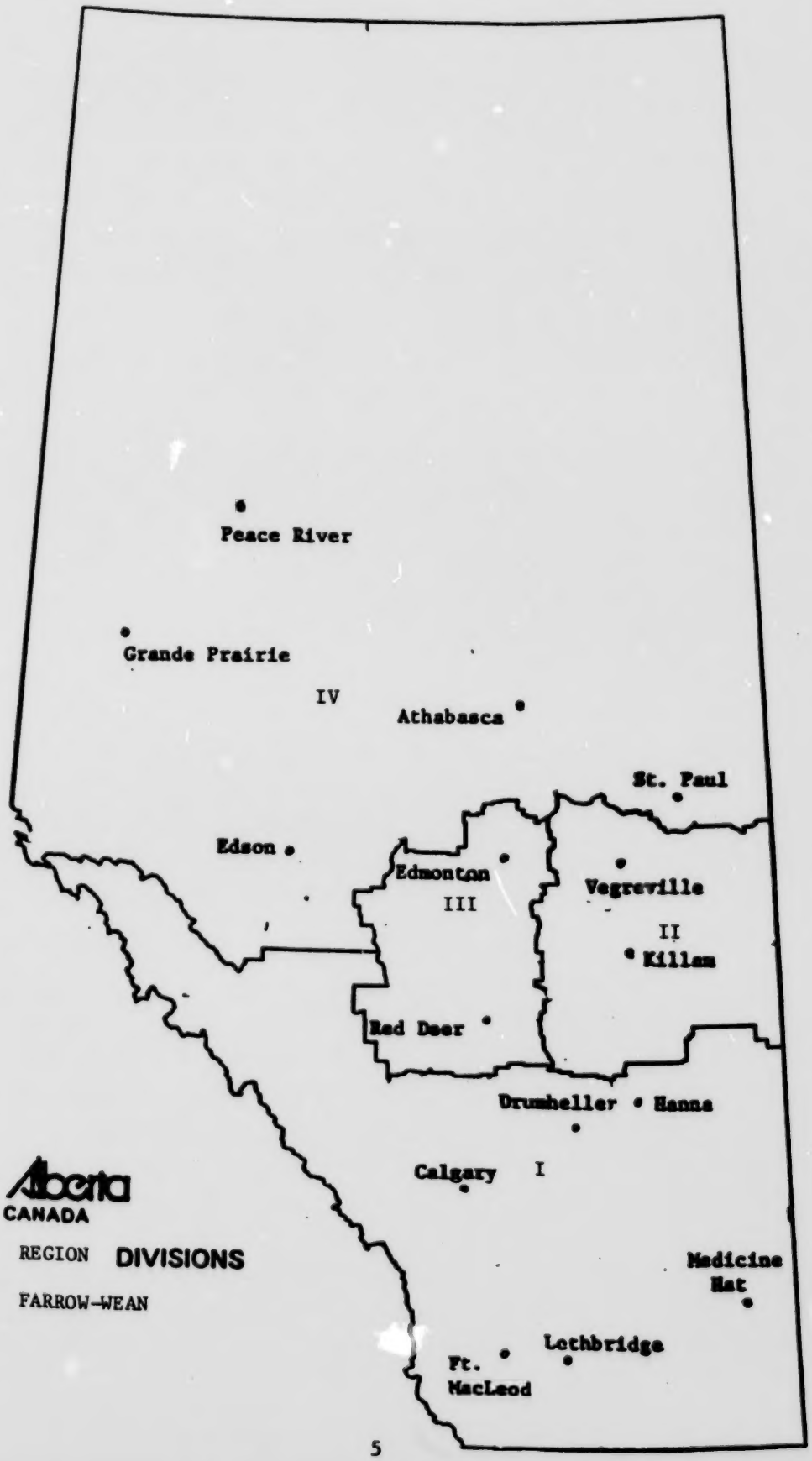

Peace River
Grande Prairie
IV
Athabasca
St. Paul
Edson
Edmonton
III
Vegreville
II
Killam
Red Deer
Drumheller
Hanna
Calgary
I
Alberta
CANADA
REGION
DIVISIONS
FARROW-WEAN
Medicine Hat
Lethbridge
Ft. MacLeod

TABLE 2: DISTRIBUTION OF STUDY PARTICIPANTS BY SIZE OF MARKETING, 1982

Size Class	Participants		Per Cent Weaners Marketed
	Number	Per Cent	
<100	3	11.5	0.7
100- 199	4	15.4	1.8
200- 499	3	11.5	3.9
500- 999	8	30.8	20.1
1000-1999	3	11.5	16.4
2000-2999	3	11.5	27.0
≧3000	2	7.7	30.1
ALBERTA	26	100	100

Some Characteristics of Farrow-Wean Farms

Age and Hog Farming Experience

The average age of participants on the 1982 farrow-wean study was 38 years. Average age ranged from 34 years in Region III to 42 years in Region I; Regions II and IV reported 39 and 37 years, respectively.

Producers marketing 2,000 to 2,999 weaners per year formed the youngest group, 31 years of age, in contrast to 46 years for the smallest weaner enterprises (<100 weaners). In the other size classes, average age of the operators varied between 39 and 42 years, except on those farms marketing 500 to 1,999 weaners per year where the average age was 36 years.

The average years of farming experience reported by the participants was 10 years with seven years directly related to hogs. The least hog farming experience of five years was reported in Region II. Hog experi-

ence was seven years in Regions III and I, and nine years in Region IV. Those farms marketing less than 100 weaners and 3,000 or more weaners per year, i.e., the smallest and largest enterprises on the study, had the most hog experience of 11 years. The least experience of four to five years was reported by farms marketing 1,000 to 2,999 weaners. The two remaining size classes averaged between five and eight years of hog farming experience.

Ownership

The majority of the farms on the study were single proprietorships, 58 per cent. Partnerships were recorded by 35 per cent of the participants, whereas corporations were reported by only seven per cent of the participants. Corporations were more prevalent in Regions I and III, and on farms marketing 3,000 or more weaners per year. Single proprietorship was the most prevalent business arrangement on farms marketing fewer than 2,000 weaners per year. Those farms marketing 2,000 to 2,999 weaners were all partnerships. Farms marketing 3,000 weaners or more did not include any partnerships.

Farm Size

The average farm on the study was about 411 acres, with 80.5 per cent of this land developed and about 84 per cent deeded. The average farm size ranged from 290 acres in Region II to 495 acres in Region IV; developed land varied from 76 per cent on farms in Region II, to 79 per cent in Regions I and IV, and 94 per cent in Region III. The proportion deeded varied between 55 per cent in Region III to 97 per cent in Region IV. Across size classes, the average farm size ranged from 260 acres with 85 per cent developed and 100 per cent deeded on farms selling the greatest amount of weaners to 513 acres with 80 per cent developed and 100 per cent deeded on farms selling 200 to 499 weaners per year. Those farms marketing fewer than 100 weaners per year had only 296 acres, 74 per cent of which was developed, but all of the land was deeded. In

general, proportionately more developed land was found in Region III, and on the larger weaner enterprises.

Hog cash receipts made up about 86 per cent of the total farm cash receipts on the average farrow-wean farm. The value of total farm assets was estimated at $444,153 per farm with equity being $249,780 or 56 per cent of total farm assets. Long term loans comprised approximately 78 per cent of the total farm debt. Almost 13 per cent interest was paid on the loans.

Hog cash receipts accounted for between 56 per cent of total farm receipts in Region I to almost 95 per cent in Region III which had the largest enterprises. The proportion of hog receipts increased with size of enterprise from 40 per cent on farms marketing fewer than 100 weaners to almost 99 per cent on farms marketing 3,000 weaners or more per year.

Breeding and Farrowing

Over 69 per cent of the farrow-wean enterprises used a continuous farrowing system, 28 per cent used a batch system and less than four per cent reported using a combination of both systems. Fifty-eight per cent of the breeding activity occurred in pens, 38 per cent on pasture and less than four per cent took place in a combination of pasture and pens.

Artificial insemination was not commonly used by farrow-wean enterprises; only eight per cent of the enterprises reported using artificial insemination. Regarding the regular breeding program, 54 per cent of these enterprises employed a two-boar exposure system, 42 per cent used one boar, and four per cent of the farrow-wean enterprises used a boar in combination with artificial insemination.

Sows were culled for a variety of reasons including: small litter size (54 per cent); being too old (15 per cent); and not rebreeding (12 per cent). They were replaced by gilts at an average annual rate of 20 per cent. Of this total replacement, 56 per cent of the gilts were recruited from within the herd, and 44 per cent were purchased. Forty-six per cent of the sows and 69 per cent of the boars were purchased from purebreed operators.

Gilts were bred at about 211 pounds or 191 days of age. Sows were weaned approximately at 32 days after farrowing and bred five to six days after weaning.

Eighty-four per cent of the sows bred during 1982 conceived at first service, and 98 per cent conceived by the second service. About 31 per cent of the enterprises used some form of pregnancy tests and almost 39 per cent claimed to use drugs to speed-up farrowing.

Death-loss

On the average farrow-wean enterprise, total death-loss was estimated at 17 per cent of the head handled. Pre-weaning death-losses accounted for 14.5 per cent of the pigs handled, or 85 per cent of the total death-losses. Post-weaning or weaner/grower deaths amounted to two per cent of the pigs handled or 12 per cent of total losses. Deaths within the breeding herd accounted for less than one per cent of pigs handled or three per cent of total losses.

Forty-three per cent of the participants indicated that scours was the main cause of death-loss in piglets, while 33 per cent claimed crushing and trampling as the main cause. When requested to indicate the main cause of weaner death-loss, the following responses were most prevalent: scours (25 per cent), runts (20 per cent), and failure to eat (15 per cent). Pneumonia, and stress each accounted for 10 per cent of total weaner death-loss. Ten per cent of the weaner death-loss was attributed to unknown causes.

Facilities

Confinement barns were used by about 73 per cent of the farrow-wean enterprises. Fifty-eight per cent of these facilities used solid floors, 32 per cent slotted and 10 per cent used a combination of solid and slotted floors. Eighty per cent of the feeding area was under pasture, 10 per cent hard surface and 10 per cent was a combination of hard surface and pasture.

Heat: Sixty-eight per cent of the farrow-wean operations did not use a heat source in the dry sow accomodations. Hot water underfloor, domestic hot air, hot water space heating and straw were each used as sources of heat by eight per cent of the operations.

In farrowing barns, heat lamps were reported to be the main source of heat by 23 per cent of the enterprises. Domestic hot air was used by 15 per cent of the enterprises, and hot water underfloor by 12 per cent; the remaining enterprises used a variety of heat sources.

One-quarter of the operations reported using domestic hot air space heating to accommodate the weaners. Seventeen per cent of the enterprises did not use a heat source in weaning barns. Underfloor hot water and hot water space heating each provided heat for 12.5 per cent of the enterprises. Heat lamps were used in weaner barns by eight per cent of the enterprises.

Ventilation: Most of the farrow-wean operations (76 per cent) did not provide mechanical ventilation systems in dry sow housing. Other enterprises used propeller exhaust, fans or forced air furnaces for ventilation in dry sow barns.

Fans were used by 57 per cent of the operations for ventilating the farrowing barns. Fifteen per cent of the operations used propeller type exhaust systems in the farrowing barns and 19 per cent used natural ventilation. Nine per cent of the operations listed a variety of other means of ventilation.

Water: Forty per cent of the enterprises reported using bowls for watering dry sows. Nipple and trough watering each constituted 16 per cent of the watering systems, and stock waterers were used by 12 per cent of the enterprises. Other methods of watering dry sows were given by the remaining 16 per cent of the enterprises.

Nipple watering was the most prevalent watering mechanism in farrowing facilities. It was used by 60 per cent of the operations. The second most common watering system was bucket watering, used by 20 per cent of the operations. Trough and stock waterers, were each used by eight per cent of the farms reporting.

Nipple watering was also the most prevalent watering mechanism in weaning facilities; 70 percent of the participants reported the use of such a system. Bucket watering was reported by 13 per cent of the

producers and stock waterers by four per cent. A variety of other watering systems were used by the remaining 13 per cent of the operations under study.

Manure Handling: The most common form of manure collection on the study, was the straw and fork method used by 39 per cent of the farrow-wean enterprises. Collection into gutters and pits were each reported by 26 and 22 per cent of the participants, respectively. Thirteen per cent of the producers reported a variety of other collection methods.

Transfer to storage was generally facilitated by gravity, (60 per cent of operations), whereas flushing and pipes were each used by 13 per cent of the operations.

A significant proportion of the operations (47 per cent) reported storing manure waste in pits. Twenty-seven per cent of the operations did use lagoon storage. Both storage in piles and in separate tanks were reported by 15 per cent of the participants.

Removal of waste from storage was made possible by either a honey wagon (47 per cent of enterprises) or a vacuum pump (27 per cent of enterprises). The use of front-end loaders and suction tanks were each reported by 13 per cent of the operations.

Most of the manure storage facilities were simply open earthen pits in the ground (46 per cent). Underslat storage was used by 23 per cent of the operations, as was separate fully contained facilities. The closed pit storage was reported by eight per cent of the operations.

Record Keeping: The majority of the farrow-wean enterprises (85 per cent) identified their sows and kept individual sow records. However, only 11.5 per cent of the operations identified weaners. Over 73 per cent of the producers recorded litter size and birth dates. Weaning weights were only recorded by about eight per cent of the enterprises. Breeding journals were used by 77 per cent of the participants.

SECTION III

HOG PRODUCTION AND SIZE OF ENTERPRISE

The average farrow-wean enterprise on the study consisted of 100 sows and five boars, giving a sow/boar ratio of 20 sows per boar. Twenty per cent of the sows was replaced in 1982 (Table 3). The largest herds were found in Region III, the Edmonton-Red Deer corridor, averaging 196 sows and eight boars per farm. Region IV had the second largest breeding herds which averaged 104 sows per farm, followed by Regions II and I with 75 and 52 sows respectively. The average sow/boar ratio in the latter three regions varied between 15 and 19 sows per boar.

It is recalled that 20 per cent of the sows were replaced by gilts in 1982. Sows were replaced at an average annual rate of 29 per cent in Region IV, 25 per cent in Region II, 16 per cent in Region II, and only nine per cent in Region III.

The average number of piglets weaned by the farrow-wean enterprises studied was 15.4 piglets per sow. There was little regional variation in the number of piglets weaned per sow, 1.3 piglets. The regional variation in the number of piglets sold (6.2 weaners per sow) was much more significant. The number of weaners sold per sow ranged from a high of 12.6 weaners in Region I to only 6.4 weaners in Region III. Some operations in Region III were in an expansion phase through sow purchases, therefore, the number of weaners sold per sow did not reflect the actual output.

On average, piglets were weaned at 33 days and 42 pounds. Across all regions piglets were weaned at four to five weeks of age. Weaning weights varied between 36 and 40 pounds in Regions I and III, and 43 to 44 pounds in the other two regions.

Post-weaning death-losses averaging two per cent were relatively low in 1982. The lowest death-losses of 1.3 and 1.7 per cent were reported in Regions II and III, compared to 2.3 and 2.7 per cent in Regions IV and I, respectively.

TABLE 3: SUMMARY OF PRODUCTION FOR FARROW-WEAN ENTERPRISES BY REGION, ALBERTA 1982

	Region				Alberta
	I	II	III	IV	
Sows	51.6	74.7	196.0	104.1	100.2
Replace Gilts	13.0	12.0	17.3	30.1	20.0
Sows/Boar	15.2	16.5	26.1	18.9	19.4
Head Handled	802.6	1015.1	1633.8	1581.3	1287.2
Weaning Age (Days)	29.6	32.6	30.5	34.7	32.5
Pigs Weaned/Sow	14.9	15.6	14.6	15.9	15.4
Weaners Sold/Sow	12.6	11.4	6.4	12.0	10.2
Death-loss	2.7	1.3	1.7	2.3	2.0
Cwt. Live Prod.	304.2	475.5	630.8	711.5	557.2
No. Weaner Equiv.*	780.9	1112.2	2235.0	1592.5	1444.4
Weaning Wt. (Lb.)	39.6	43.4	35.6	44.0	41.7
Lb. Feed/Sow	3702.5	4408.6	2976.9	4971.7	4132.9
Lb. Feed/Wean. Equiv.	244.7	296.1	261.1	305.8	286.8

* A weaner equivalent (weaner produced) is defined as a hypothetical weaner pig with the same live weight as the weaners actually sold.

For the purposes of this report, a weaner equivalent or weaner produced is defined as a hypothetical weaner pig with the same live weight as the weaners actually sold. Given the average live production of 557.2 hundredweight per farm, the average farrow-wean enterprise produced over 1,444 weaner equivalents (Table 3). Lower production levels of 780.9 and 1112.2 weaner equivalents per farm were reported for Regions I and II, respectively. At the other extreme, Regions III and IV, respectively reported production levels of 2,235 and 1,693 weaner equivalents per farm.

As the size of enterprise increased, the breeding herd size increased from 15 sows and one boar on farms selling fewer than 100 weaners per year to 449 sows and 15 boars on farms selling 3,000 or more weaners per year (Table 4). The number of sows per boar averaged 15 to 16 sows per boar on farrow-wean farms marketing 100 to 1,999 weaners per year versus 12 sows per boar on the smallest weaner farms, and 20 and 29 sows per boar, respectively, on farms marketing 2,000 to 2,999 and 3,000 or more weaners per year. The proportion of replacement gilts tended to decrease as the size of enterprise increased, from nearly 96 per cent on smallest farms to nine per cent on the largest farrow-wean farms. The exception was a four per cent replacement rate on farms marketing 200 to 499 weaners per year.

Average piglets weaned per sow per year also increased with the size of enterprise from 8.6 piglets on farms selling fewer than 100 weaners to about 17 piglets on farms marketing 2,000 or more weaners per year. Only farms marketing 1,000 weaners or more per year showed better weaning rates than the sample average of 15.4 piglets. The relatively low number of weaners sold per sow on farms marketing 3,000 weaners or more was due to large purchases of sows in the latter part of the year to expand the breeding herd.

In general, larger enterprises had a tendency to wean early. The average days of weaning declined from 39 days on farms marketing fewer than 100 weaners to 22 days on farms marketing 3,000 or more weaners per year, a difference of nearly 2.5 weeks. In spite of this difference, average weaner weights ranged between 37 and 42 pounds in all size classes except those marketing fewer than 100 weaners and 1,000 to 1,999

TABLE 4: SUMMARY OF PRODUCTION FOR FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA 1982

	Size Class							Alberta
	<100	100-199	200-499	500-999	1000-1999	2000-2999	≥3000	
Sow	15.3	26.8	46.3	61.8	106.3	201.0	449.0	100.2
Replace Gilts	14.7	18.0	2.0	17.8	36.3	24.0	37.5	20.0
Sows/Boar	11.5	15.3	15.3	15.4	16.0	19.5	29.0	19.4
Head Handled	164.7	192.5	391.3	877.8	1760.3	2668.3	5360.5	1287.2
Weaning Age (Days)	38.7	28.3	33.3	35.6	30.3	32.3	21.5	32.5
Pigs Weaned/Sow	8.6	12.3	11.4	13.0	15.8	17.0	16.7	15.4
Weaners Sold/Sow	4.3	4.4	7.5	10.8	13.7	11.9	8.9	10.2
Death-loss	1.0	7.5	2.3	2.4	2.3	1.3	1.8	2.0
Cwt. Live Prod.	109.5	119.9	168.3	350.0	984.5	998.2	2213.2	557.2
No. Weaner Equiv.	216.4	297.1	404.9	1124.0	2092.7	2686.9	5585.8	1444.4
Weaning Wt. (Lb.)	55.7	41.1	41.7	37.3	46.7	37.3	39.0	41.7
Lb. Feed/Sow	2627.6	3278.4	2610.6	4985.1	6258.8	3965.8	3435.7	4132.9
Lb. Feed/Wn Eq	186.2	295.2	298.7	273.9	318.0	296.7	276.2	286.8

weaners per year. In the latter classes, weaner weights averaged 56 and 47 pounds, respectively.

Death-loss varied with size of enterprise from only one per cent on the smallest enterprises up to 2.4 per cent on farms marketing between 500 to 999 weaners. The exception occurred on farms marketing 100 to 199 weaners per year which reported losses of 7.5 per cent. In the latter size class, two farms experienced severe losses due to scours and chills.

As expected, production increased with the size of operation. The smallest farms produced 216.4 weaner equivalents per farm compared to 5585.8 weaner equivalents on the largest farms (Table 4). Farrow-wean farms marketing 500 to 999 weaners per year produced on average, 1,124 weaner equivalents in 1982.

SECTION IV

ANALYSIS OF INVESTMENT AND LABOUR COSTS

Current Market Value of Fixed Assets

The current market value of fixed assets associated with farrow-wean enterprises was estimated at an average of $144,305 per farm or $1,443 per sow (Table 5). Two-thirds of the total investment or $94,930 were allocated to buildings and equipment, 18 per cent or $26,397 went to breeding stock, eight per cent was allocated to machinery and other equipment, four per cent to feed storage and feeding equipment, three per cent to land, and one per cent to manure storage and handling.

Regionally, the greatest amount of investment per farm was reported in Region III, $265,166 (Table 5), followed by Region IV with $157,584 per farm. The southern and eastern regions reported lower investment of $90,582 per farm in Region I and $94,644 per farm in Region II. Investment per sow was significantly lower in Region II and III, than in Regions I and IV.

The proportion of investment allocated to buildings and equipment was relatively high, ranging from 57.6 per cent in Region II to 73.2 per cent in Region III. Breeding stock contributed between 15.4 per cent to 21.1 per cent of the total investment value.

As the size of enterprise increased, the total value of assets also increased from $34,584 per farm or $2,306 per sow on farms marketing fewer than 100 weaners to $564,087 per farm or $1,256 per sow on farms marketing 3,000 or more weaners per year (Table 6). Farms marketing fewer than 1,000 weaners per year estimated the current market value of farrow-wean assets to be less than $96,000, while those farms marketing 1,000 weaners or more per year reported asset values in excess of $146,000 per farm. Similarly, those farms marketing 1,000 weaners or more per year had lower investment per sow than those farms marketing fewer than 1,000 weaners per year.

Generally, the proportion of investment allocated to buildings and equipment varied between 60 and 70 per cent on all farms except those

TABLE 5: CURRENT MARKET VALUE ON FIXED ASSETS FOR FARROW-WEAN ENTERPRISES BY REGION, ALBERTA, 1982

Region	Breeding Stock	Building & Equipment	Manure Storage & Handling	Feed Storage & Equipment	Machinery & Other Equipment	Land	Total Per Farm	Total Per Sow
	- Dollars -							
I	13970	60273	900	3250	10520	1670	90582	1792
II	19968	54497	1414	4471	11787	2507	94644	1262
III	51263	194126	225	938	12084	6531	265166	1353
IV	27165	100883	1561	11430	9907	6638	157584	1515
ALBERTA	26397	94930	1189	6370	10866	4554	144305	1443

TABLE 6: CURRENT MARKET VALUE OF FIXED ASSETS FOR FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA, 1982

Size Class	Breeding Stock	Building & Equipment	Manure Storage & Handling	Feed Storage & Equipment	Machinery & Other Equipment	Land	Total Per Farm	Total Per Sow
				Dollars				
<100	4192	17253	-	2911	5794	4433	34584	2306
100-199	7225	16551	225	2063	11814	4406	42282	1566
200-499	12367	68816	300	3583	7055	4692	96813	2105
500-999	16594	60729	913	3888	8277	4644	95044	1533
1000-1999	28500	89906	2500	4083	20936	483	146408	1381
2000-2999	52000	199753	2469	8451	17678	6600	286951	1428
≧3000	116750	394477	3450	34585	7325	7500	564087	1256
ALBERTA	26397	94930	1189	6370	10866	4554	144305	1443

which marketed fewer than 200 weaners per year. Only 39 per cent of investment was tied up in buildings and equipment on farms marketing fewer than 200 weaners.

Depreciation

For the purposes of this report, depreciation was considered to be a non-cash cost associated with capital ownership. Annual depreciation was calculated using the straight line method where the difference between current market value and salvage value was divided by the years remaining life. The salvage value was set at 10 per cent of the current market value.

$$\text{Depreciation} = \frac{\text{Current Market Value - Salvage Value}}{\text{Years Remaining Life}}$$

The average annual depreciation of assets on farrow-wean enterprises in 1982 was estimated at $7,325 or about five per cent of the investment value and nine per cent of total production costs. The proportion of the total depreciation allocated to buildings and equipment was 68.2 per cent. Machinery and other equipment contributed 21.4 per cent of total depreciation. Feed storage and equipment, and manure storage and handling were allocated 8.3 and 2.1 per cent, respectively.

Region III with the largest farms indicated the highest depreciation of $11,420 per farm, (Table 7). Region IV recorded average depreciation of $8,146; the depreciation in Region I and II was estimated at $5,450 and $5,153, respectively.

As the size of enterprise increased, depreciation steadily increased from $2,900 on the smallest farms to $22,576 on the largest (Table 8). The proportion of depreciation allocated to buildings and equipment increased with size of enterprise from 34 per cent on farms marketing fewer than 100 weaners to 79 per cent on farms marketing 3,000 weaners or more per year.

TABLE 7: AVERAGE ANNUAL DEPRECIATION OF FIXED ASSETS FOR FARROW-WEAN ENTERPRISES BY REGION, ALBERTA, 1982

Region	Buildings & Equipment	Manure Storage & Handling	Feed Storage & Equipment	Machinery & Other Equipment	Total
	- Dollars -				
I	2958.90	130.0	237.02	2124.08	5450.00
II	3587.06	91.29	415.23	1059.12	5152.69
III	8940.37	19.50	238.12	2222.48	11420.48
IV	5421.25	268.50	1071.69	1384.71	8146.15
ALBERTA	4995.31	155.85	606.19	1568.12	7325.47

TABLE 8: AVERAGE ANNUAL DEPRECIATION OF FIXED ASSETS FOR FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA, 1982

Size Class	Buildings & Equipment	Manure Storage & Handling	Feed Storage & Equipment	Machinery & Other Equipment	Total
			Dollars		
<100	990.74	-	994.40	915.22	2900.36
100-199	1210.31	19.50	320.62	1384.41	2934.85
200-499	2826.09	18.00	551.15	985.50	4380.74
500-999	2946.29	163.37	300.58	1400.60	4810.86
1000-1999	5546.00	225.00	516.00	1896.68	8183.68
2000-2999	12620.00	400.42	733.56	2475.77	16229.75
≥3000	17758.96	368.36	1844.30	2604.60	22576.22
ALBERTA	4995.31	155.85	606.19	1568.12	7325.47

Interest Paid on Capital Loans

Farrow-wean producers were requested to provide the actual interest paid on capital loans in 1982. The average interest paid on capital loans associated with the farrow-wean enterprise amounted to $9,245 or $92.24 per sow. Interest payments were highest on farms in Region III which averaged over $125 per sow compared to $88 per sow in Region IV, and $62 and $68 respectively, in Regions I and II (Appendix B).

Total interest cost on fixed assets also increased with the size of enterprise from $65 per farm marketing fewer than 100 weaners per year, to $26,344 on farms marketing 2,000 to 2,999 weaners per year. On a per sow basis, interest paid in 1982 reached a high of $131 on farms marketing 2,000 to 2,999 weaners and $108 on the largest farrow-wean farms. Interest payment of only $4 per sow was made by farms marketing fewer than 100 weaners; interest of $97, $70 and $58 per sow were reported by farms marketing 100 to 199, 500 to 999, and 1,000 to 1,999 weaners, respectively. No interest payments were reported by those farms marketing 200 to 299 weaners.

Labour Use And Costs

Total labour hours on farrow-wean farms was estimated at 2,955 hours per farm or about 30 hours per sow. By far, most of the labour, 78 per cent, was provided by the operator and his family. However, hired labour was a very significant source of farm labour contributing almost 22 per cent of the total labour used compared to 16.5 per cent for family labour. The total labour requirements of 2,955 hours of productive man-work units represented approximately 1.18 man equivalents per farm.

Of the total 2,955 hours of labour dedicated to the farrow-wean enterprise, approximately 25 per cent or 741.4 hours, was spent feeding and preparing feed (Table 9). Twenty-seven per cent or 800.2 hours was allocated to breeding and farrowing, 21 per cent or 609.9 hours to cleaning and manure disposal, 13 per cent or 373.7 hours to moving and sorting, and four per cent or 118.5 hours to buying and marketing. Over

TABLE 9: ALLOCATION OF LABOUR ON FARROW-WEAN ENTERPRISES, ALBERTA, 1982

	Feeding & Feed Prep.	Breeding & Farrowing	Cleaning & Manure Disp.	Moving Sorting	Buying & Marketing	Repairs Bldg., Equip.	Mgt. & Records	Total
	Hours (Percent)							
Operator	548.87 (18.57)	349.92 (11.84)	381.32 (12.90)	234.44 (7.93)	86.90 (2.94)	120.48 (4.08)	106.10 (3.59)	1828.03 (61.86)
Family	93.19 (3.15)	146.85 (4.97)	114.79 (3.88)	58.88 (1.99)	15.62 (0.53)	16.77 (0.57)	40.96 (1.39)	487.06 (16.48)
Hired	99.29 (3.36)	303.46 (10.27)	113.77 (3.85)	80.38 (2.72)	16.00 (0.54)	20.00 (0.68)	7.02 (0.24)	639.92 (21.66)
TOTAL	741.35 (25.09)	800.23 (27.08)	609.88 (20.64)	373.71 (12.65)	118.52 (4.01)	157.25 (5.32)	154.08 (5.21)	2955.02 (100)

five per cent of the labour was devoted to repairs of buildings and equipment and five per cent to management and maintaining records.

Total operator labour per farm was estimated at 1828 hours. On average, operators spent about 30 per cent of their time feeding and preparing feed, 21 per cent on cleaning and manure disposal, 19 per cent on breeding and farrowing, 13 per cent on moving and sorting, 6.5 per cent on repairs to buildings and equipment, six per cent on management and records, and 4.5 per cent on buying and marketing.

Roughly 30 per cent of the total family labour was devoted to breeding and farrowing, 23.5 per cent was spent cleaning and on manure disposal, 19 per cent feeding and preparing feed, 12 per cent moving and sorting, 8.5 per cent on management and records, and an equal amount of 3.5 per cent on repairs of buildings and equipment, and buying and marketing.

The largest proportion of hired labour was allocated to breeding and farrowing (47 per cent). Cleaning and manure disposal represented 18 per cent of hired labour. About 16 per cent of the hired labour was attributed to feeding and feed preparation, 12 per cent to moving and sorting, three per cent to repairs of buildings and equipment. Less than four per cent of hired labour was involved in buying and marketing pigs, management and record keeping.

Regionally, total labour use on farrow-wean enterprises varied from as much as 5,300 hours per farm or 27 hours per sow in Region III to only 1,912 hours per farm or 37 hours per sow in Region I (Table 10). Farms in the southern and central regions allocated less time to hogs than the average for the study. When labour was expressed as a ratio relative to weaners produced, it was found that on average, enterprises in Region I required 2.45 hours to produce one weaner compared to enterprises in Region IV which reported 1.75 hours per weaner. Regions II and III reported 2.12 and 2.37 hours per weaner, respectively.

As the size of enterprise increased, total labour use increased as well. In contrast, however, labour use per weaner produced decreased as the enterprise increased in size. Total labour hours ranged from 1298 hours on farms marketing 100 to 199 weaners to 11,095 hours on farms marketing 3,000 weaners or more per year (Table 11). Labour use per weaner produced declined from 10.5 hours on farms marketing less than 100

TABLE 10: LABOUR USE ON FARROW-WEAN ENTERPRISES BY REGION, ALBERTA, 1982

	Region				Alberta
	I	II	III	IV	
	- - - - - - - - - - - - - Hours - - - - - - - - - - - - - - - - - -
Operator	1599.0	1624.4	2184.3	1942.4	1828.0
Family	313.0	733.2	661.3	332.1	487.1
Hired	-	-	2454.5	682.0	639.9
Total	1912.0	2357.6	5300.1	2956.5	2955.0
Per Weaner Equivalent	2.45	2.12	2.37	1.75	2.05

TABLE 11: LABOUR USE ON FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA, 1982

Size Class	Operator	Family	Hired	Total	Per Wean Equiv.
	- - - - - - - - - - - - Hours - - - - - - - - - - - -				
<100	1324.8	944.3	-	2269.10	10.49
100-199	1267.8	30.8	-	1298.6	4.37
200-499	1329.0	31.7	-	1360.7	3.36
500-999	1308.3	250.9	-	1559.2	1.39
1000-1999	3268.2	1034.0	-	4302.20	2.06
2000-2999	2667.5	693.5	1031.0	4392.0	1.63
≧3000	3110.6	1211.5	6772.5	11094.6	1.99
ALBERTA	1828.0	487.1	639.9	2955.00	2.05

weaners to 1.65 hours on farms marketing between 2,000 to 2,999 weaners per year. Farms marketing 500 to 999 weaners per year reported lower labour usage of only 1.39 hours per weaner. Hired labour was only used on those farms marketing 2,000 or more weaners per year, representing between 23 and 61 per cent of total labour requirements.

For the purposes of this report, operator and family labour were treated as non-cash costs. The inputed wage rates used were determined from a random selection of hired rates for farm labour. The operator rate was set at $6.85 per hour, whereas, family rates varied depending upon the work preformed. Hired labour was the actual wage paid and therefore treated as a cash cost. The average cost of labour for the 1982 farrow-wean enterprises was $18,059 or about $12.51 per weaner equivalent (Table 12). This cost represented about 22.4 per cent of total production costs. Operator labour costs averaged $8.67 per weaner equivalent or 69 per cent of total labour cost. Family labour costs averaged $1.35 per weaner equivalent or about 11 per cent of total labour costs. Hired labour averaged $2.49 per weaner equivalent or 20 per cent of the total labour costs.

Total labour costs per weaner equivalent varied among regions from $11.00 in Region IV to $15.40 in Region I (Table 12). Regions II and III reported labour costs of $13.18 and $13.47 per weaner equivalent, respectively.

Regions I and II did not report any hired labour. The hired labour costs per weaner equivalent in Region III and IV were $5.77 and $2.47, respectively.

Operator and family labour averaged $10.02 per weaner equivalent. This cost represented over 80 per cent of the total labour costs, and almost 18 per cent of total production costs. Operator and family labour represented 100 per cent of the total labour costs in Region I and II, and 57 and 78 per cent of total labour costs in Regions III and IV, respectively.

Total labour costs per weaner equivalent generally decreased with size of enterprise from $56.91 on farms marketing fewer than 100 weaners to $10.60 on farms marketing between 2,000 to 2,999 weaners (Table 13). Farms marketing between 500 to 999 weaners per year reported costs of only $8.74 per weaner equivalent. Hired labour was only reported on

TABLE 12: AVERAGE LABOUR COSTS FOR FARROW-WEAN ENTERPRISES BY REGION, ALBERTA, 1982

Region	Hired	Operator	Family	Total
		$/weaner equiv.		
I	-	14.03	1.37	15.40
II	-	10.00	3.18	13.18
III	5.77	6.69	1.01	13.47
IV	2.47	7.86	0.67	11.00
ALBERTA	2.49	8.67	1.35	12.51

TABLE 13: AVERAGE LABOUR COSTS FOR FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA, 1982

Size Class	Hired	Operator	Family	Total
		$/wean equiv.		
<100	-	41.94	14.97	56.91
100 - 199	-	29.23	0.36	29.59
200 - 499	-	22.48	0.27	22.75
500 - 999	-	7.97	0.77	8.74
1000 - 1999	-	10.70	1.69	12.39
2000 - 2999	2.03	6.80	1.77	10.60
≧3000	6.90	3.81	0.74	11.45
ALBERTA	2.49	8.67	1.35	12.51

farms marketing 2,000 or more weaners per year ranging between $2.03 to $6.90 per weaner equivalent. The proportion of operator labour generally decreased as the size of operation increased, from 99 per cent on farms marketing 100 to 199 weaners to only 33.3 per cent on the largest size farms.

SECTION V

CASH COSTS

Feed And Feed Costs

As feed is a major factor in weaner pig production, great care was taken to record all of the feed used during the production year. Home-grown grains were valued by applying the prevailing regional elevator prices provided by the Alberta Grain Commission. Other home-grown feeds were valued at the current market prices. This procedure assumed that home-grown feed was purchased from the crop enterprise. In other words, the crop enterprise is viewed as a separate entity and is compensated as such. The cost of purchased feed was valued at the actual market prices.

On average, weaner producers reported feeding 287 pounds of feed per weaner equivalent or 4,133 pounds per sow in 1982. Those amounts also included feed used by the breeding stock.

The average feed cost per weaner equivalent was $22.34, equalling almost 55 per cent of the total cash cost and 40 per cent of the total production cost. The feed cost per sow was estimated at $322.

Less feed was used per weaner in Regions I and III, 245 to 261 pounds, compared with 296 to 306 pounds in Regions II and IV because Regions I and III reportedly weaned piglets at an earlier age and sold the weaners at lighter weights. Despite this difference, feed cost in Region III was much higher, $25.61 per weaner equivalent, versus $20 to $22 per weaner equivalent in the other regions. Also, the proportion of feed costs to cash costs was only 49 per cent in Region III as against 56 to 59 per cent in the other regions.

With the exception of the smallest size class, feed per weaner produced varied between 274 and 318 pounds, depending on the age at weaning and sale weight of the weaners. Enterprises marketing fewer than 100 weaners per year reported only using 186 pounds of feed per weaner equivalent. Accordingly, the smallest enterprises had the lowest feed costs of $14.40 per weaner equivalent (Table 15). In contrast, enterprises marketing 3,000 weaners or more per year recorded the highest feed

TABLE 14: ESTIMATED CASH COSTS FOR FARROW-WEAN ENTERPRISES BY REGION, ALBERTA, 1982

Region	Feed Costs	Other Cash Costs	Total Cash Costs
	- - - - - - - - - $/weaner equiv. - - - - - - - - -		
I	20.08	14.13	34.21
II	20.91	16.76	37.66
III	25.61	26.42	52.03
IV	21.80	16.06	37.86
ALBERTA	22.34	18.47	40.81

TABLE 15: ESTIMATED CASH COSTS FOR FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA 1982

Size Class	Feed Costs	Other Cash Costs	Total Cash Costs
	- - - - - - - - - $/weaner equiv.- - - - - - - -		
<100	14.40	25.60	40.00
100-199	23.86	27.44	51.30
200-499	22.43	15.95	38.38
500-999	19.52	12.99	32.51
1000-1999	21.43	10.73	32.15
2000-2999	22.13	22.64	44.77
≧3000	25.57	23.14	48.71
ALBERTA	22.34	18.47	40.81

costs of $25.57 per weaner equivalent. Between the two extremes, the variation in price was only $4.40 per weaner equivalent.

As the size of weaner enterprise increased, feed costs assumed a greater proportion of the total cash costs. For example, feed costs represented 36 to 47 per cent of total cash costs on farms marketing fewer than 200 weaners per year, 49 to 53 per cent on farms marketing 200 to 1,999 weaners, and 58 to 67 per cent on the largest weaner farms.

Other Cash Costs

Other cash costs reflected the out-of-pocket expenses excluding feed costs. These costs included livestock purchases, bedding, veterinarian and medical expenses, chemicals and disinfectants, hired manure disposal, hired labour, hog trucking, marketing and assembly charges, operating and repair costs, tax insurances and utilities, accounting and professional dues, an interest charge of 15.5 per cent on operating expenses and all interest paid on capital loans.

The other cash costs for the average farrow-wean enterprise on the study amounted to $18.47 per weaner equivalent or $266 per sow (Table 14). This cost comprised 45.5 per cent of the total cash cost, and 33 per cent of total production costs. Major components contributing to these costs were interest paid on capital loans ($6.40 per weaner equivalent), insurance, taxes, and utilities ($3.21 per weaner equivalent), operating and repair costs ($2.56 per weaner equivalent), and hired labour ($2.49 per weaner equivalent).

As with feed costs, other cash costs of $26.42 per weaner equivalent was highest in Region III (Table 14). In this region where enterprises were more heavily capitalized, interest paid on capital loans and hired labour were substantially higher than average at $10.99 and $5.77 per weaner equivalent, respectively. Region I reported other cash costs amounting to only $14.13 per weaner equivalent. No hired labour was required in this region, and interest paid on capital loans amounted to only $4.07 per weaner equivalent. Regions II and IV reported other cash costs of $16.76 and $16.06 per weaner equivalent, respectively. Expressed on a percentage basis, other cash costs varied from a low of 41 per

cent of total cash cost in Region I to over 50 per cent of the total cash cost in Region III.

The amount of other cash costs varied with size of enterprise ranging from a low $10.73 per weaner equivalent on farms marketing 1,000 to 1,999 weaners to $27.44 per weaner equivalent on farms marketing 100 to 199 weaners per year (Table 15). The major contributing cost factors in farms selling fewer than 500 weaners per year were operating and repair costs, and taxes, insurances and utilities. On those farms marketing 500 weaners or more per year, interest on capital loans was the primary contributory factor to other cash costs. On the largest enterprises, (>2,000 weaners) paid interest on capital loans ranged between $8.71 to $9.80 per weaner equivalent.

Total Cash Costs

The average cash or out-of-pocket costs reported by the farrow-wean participants was $58,952 or $40.81 per weaner equivalent. These costs represented about 73 per cent of total production costs. The total cash costs varied with the region ranging from $34.21 per weaner equivalent in Region I to $52.03 per weaner equivalent in Region III (Table 14). Regions II and IV had average cash costs of $37.66 and $37.86 per weaner equivalent, respectively. Total cash cost ranged from 60 per cent of total production cost in Region I, to 68 per cent, 74 per cent and 80 per cent in Regions II, IV and III, respectively.

Total cash costs per weaner equivalent varied with size of enterprise ranging from a high of $51.30 on farms marketing 100 to 199 weaners to $32.51 and $32.15 on farms marketing 500 to 999 weaners and 1,000 to 1,999 weaners, respectively. Farms marketing 200 to 499 weaners reported costs of $38.38 per weaner equivalent and the farms in the two largest size classes reported total cash costs of $44.77 and $48.71 per weaner equivalent, respectively. Total cash cost per sow in 1982 was just over $588.

SECTION VI

SUMMARY OF RETURNS AND COSTS

An enterprise should have sufficient returns to provide for living expenses, payment of debts, and provide for future investment. Economic indicators which are used to determine the financial position of an enterprise include returns to farm assets and return to farm equity. Examination of the returns and costs associated with the hog enterprise will help to determine the financial performance of that enterprise.

For the purpose of this report, total gross income included returns from actual livestock sales, government support payments, other hog receipts and a dollar value adjustment for inventory change. Other hog receipts included a value for hogs consumed on the farm, and sales of by-products such as manure. If information regarding hog sales was available from APPMB, then it was taken directly from the Hog Carcass Grading Certificate. However, since all weaner sales occur in an unregulated market, the majority of the sales information were taken directly from producer records. The average market price was used to determine the value of inventory change, hogs consumed on the farm and gilts retained for breeding.

Data regarding costs associated with the hog enterprise were taken directly from financial records. If complete records were not available, the operator was requested to estimate as accurately as possible those deficient items. An operating interest charge of 15.5 per cent was applied to all cash operating expenses including home-grown feed.

The average gross income on the farrow-wean farms in 1982 was $68,922 which corresponded to $47.72 per weaner equivalent or $807 per sow (Table 16). The highest return of $54.19 per weaner equivalent was reported in Region II. Producers in this region generally received a higher price for their weaners. They also finished more hogs per farm than average. The lowest gross income of $40.48 per weaner equivalent was reported in Region III. Producers in this region seemed to be in a herd build-up phase; they sold half as many weaners as enterprises elsewhere, and the weaners were generally lighter in weight. Regions I

TABLE 16: ESTIMATED RETURNS AND COSTS FOR FARROW-WEAN ENTERPRISES BY REGION, ALBERTA, 1982

	Regions				Alberta
	I	II	III	IV	
	- - - - - - - - - - - - - - - - Dollars - - - - - - - - - - - - - - - - - -				
RETURNS					
Returns/Wean Equiv.	46.16	54.19	40.48	48.92	47.72
TOTAL RETURNS	36043.21	60269.72	90480.63	82794.12	68921.84
COSTS					
Feed Costs/Wean Equiv.	20.08	20.91	25.61	21.80	22.34
Other Cash Costs/Wean Equiv.	14.13	16.76	26.42	16.06	18.47
Total Cash Costs/Wean Equiv.	34.21	37.66	52.03	37.86	40.81
Non-Cash Costs/Wean Equiv.	22.38	17.81	12.82	13.35	15.09
Total Costs/Wean Equiv.	56.59	55.47	64.85	51.21	55.90
TOTAL COSTS	44193.89	61700.65	144939.38	86669.59	80743.36
Returns Over Cash/Wean Equiv	11.95	16.53	(11.55)	11.06	6.91
Net Return/Wean Equiv. (Return to Management)	(10.44)	(1.29)	(24.37)	(2.29)	(8.18)
Return on Investment (%)	(5.5)	3.9	(11.3)	3.3	(1.8)

and IV reported gross returns of $46.16 and $48.92 per weaner equivalent, respectively. Total returns per sow for the sample as a whole was $687.63.

The average feed costs per weaner equivalent on farrow-wean farms was $22.34 (Table 16). The only region to report higher feed costs than average was Region III with feed costs of $25.61 per weaner equivalent. In this region, home-grown feed represented 84.1 per cent of total feed, whereas the average for the province was only 53 per cent. The lowest feed cost of $20.08 per weaner equivalent were reported by farms in Region I. Producers in this region tended to purchase most of the feed, with home-grown feed contributing only 30 per cent of their total feed used. Feed costs per weaner equivalent in Regions II and IV were $20.91 and $21.80, respectively.

Farrow-wean enterprises reported on average, other cash cost of $18.47 per weaner equivalent. Other cash cost was highest in Region III at $26.42 per weaner equivalent; 43 per cent above the sample average. Farrow-wean enterprises in this region were decidedly larger, had newer facilities, higher interest payments on capital loans, more hired labour, and higher taxes, insurances and utility costs. Region I with the smallest enterprises reported other cash costs of $14.13 per weaner equivalent, versus $16 to $17 in Regions II and IV. This low cost was attributed to the lack of hired labour and substantially lower than average interest paid on capital loans.

Non-cash costs included such items as operator and family labour, and depreciation on buildings and equipment. The average farrow-wean enterprise reported non-cash costs of $15.09 per weaner equivalent or $218.82 per sow (Table 16). Regions I and II indicated higher than average non-cash costs of $22.38 and $17.81 per weaner equivalent, respectively. In these two regions, family and operator labour costs were the greatest contributing factor. The lowest cost of $12.82 per weaner equivalent was in Region III. The operator labour costs were lower than average for this region; greater use was made of hired labour than elsewhere in the province. Region IV reported a non-cash cost of $13.35 per weaner equivalent.

Total production costs averaged $80,743 or $55.90 per weaner equivalent on farrow-wean operations. Region III indicated the highest produc-

tion costs of $64.85 per weaner equivalent, compared to $56.59, $55.47 and $51.21 in Regions I, II and IV, respectively. Total cost per sow was estimated at $807.

The gross margin or return over cash costs is the residual left for unpaid family and operator labour, depreciation and management. The average gross margin for farrow-wean enterprises in 1982 was $6.91 per weaner equivalent or $99.47 per sow (Table 16). Region II reported the greatest gross margin of $16.53 per weaner equivalent. Regions I and IV experienced gross margins of $11.95 and $11.06 per weaner equivalent, respectively. The only region to experience a negative gross margin of $11.55 per weaner equivalent or $282.53 per sow was Region III, which, as is recalled, reported the lowest per unit returns and the highest production costs.

The total returns per farm increased with size of enterprise from $11,665 or $761 per sow on farms marketing less than 100 weaners to $289,218 or $644 per sow on farms marketing 3,000 weaners or more per year (Table 17). The total returns per weaner equivalent varied with the size of enterprise from $41.06 on farms marketing 500 to 999 weaners to $54.38 on farms marketing 100 to 199 weaners per year. The size classes that reported higher than average gross income per weaner were those farms marketing less than 200 weaners, 1,000 to 1,999 weaners, and 3,000 weaners or more per year. In these size classes, producers received higher prices per weaner as well as finished more hogs to market weight.

Feed costs per weaner equivalent varied with the size of enterprise from $19.52 on farms marketing between 500 to 999 weaners to $23.86 on farms marketing between 100 to 199 weaners (Table 17). Two size classes which did not exhibit the general trends, were those marketing less than 100 weaners with feed costs of only $14.40 per weaner and those marketing 3,000 weaners or more with feed costs of $25.57 per weaner equivalent. Producers in the smallest size class reported requiring less feed per weaner equivalent, sold weaners at a heavier weight and, on average fed more pigs to market weight. Due to large purchases of breeding stock and the sale of light weight weaners by the larger size enterprises, production in this size class was lower than anticipated as reflected in the number of weaners sold per sow.

TABLE 17: ESTIMATED RETURNS AND COSTS FOR FARROW-WEAN ENTERPRISES BY SIZE, ALBERTA, 1982

	Size Class							Alberta
	<100	100-199	200-499	500-999	1000-1999	2000-2999	≧3000	
	- - - - - - - - - - - - - - - DOLLARS - - - - - - - - - - - - - - -							
RETURNS								
Returns/Wean Equiv.	53.90	54.38	47.41	41.06	50.48	45.93	51.78	47.72
TOTAL RETURNS	11664.98	16155.76	19194.41	46151.28	105636.73	123403.25	289218.18	68921.84
COSTS								
Feed Costs/Wean Equiv.	14.40	23.86	22.43	19.52	21.43	22.13	25.57	22.34
Other Cash Costs/Wean Equiv	25.60	27.44	15.95	12.99	10.73	22.64	23.14	18.47
Total Cash Costs/Wean Equiv	40.00	51.30	38.38	32.51	32.15	44.77	48.71	40.81
Non Cash Costs/Wean Equiv	70.31	39.47	33.57	13.02	16.30	14.61	8.60	15.09
Total Costs/Wean Equiv.	110.31	90.76	71.95	45.53	48.46	59.37	57.31	55.90
TOTAL COSTS	23871.24	26964.36	29131.52	51171.63	101403.09	159532.72	320140.65	80743.36
Returns Over Cash/Wean Equiv.	13.90	3.08	9.03	8.55	18.33	1.16	3.07	6.91
Net Return/Wean Equiv. (Return to Management)	(56.41)	(36.38)	(24.54)	(4.47)	2.02	(13.45)	(5.54)	(8.18)
Return on Investment (%)	(35.2)	(19.4)	(10.3)	(0.7)	7.1	(3.4)	3.1	(1.8)

Generally, other cash costs of $11 to $16 per weaner tended to be lower in the intermediate size classes, 200 to 1,999 weaners, than at the two extremes. Due to proportionately higher operating and repair costs on farms marketing fewer than 200 weaners, other cash cost averaged about $26 to $27 per weaner. In the two largest size classes, hired labour was a significant factor pushing other costs to roughly $23 per weaner (Table 17).

As the size of enterprise increased, the non-cash costs significantly decreased from $70.31 per weaner equivalent on farms marketing less than 100 weaners to $8.60 per weaner equivalent on farms marketing 3,000 weaners or more per year (Table 17). The major contributing factor on smaller operations was the relatively low productivity of operator and family labour. Operator and family labour represented up to 81 per cent of the non-cash costs on the smallest farms compared to about 53 per cent on the largest farms.

All of the size classes indicated positive gross margins ranging from a low of $1.16 per weaner equivalent on farms marketing 2,000 to 2,999 weaners to $18.33 per weaner on farms marketing 1,000 to 1,999 weaners (Table 17). Interestingly, the enterprises marketing 2,000 weaners or more per year generally reported substantially lower gross margins, $1.10 to $3.07 per weaner, than those enterprises marketing fewer than 1,000 weaners per year. However, only those farms marketing between 1,000 to 1,999 weaners indicated a profit of $2.02 per weaner equivalent or $39.81 per sow. Because of the non-cash costs, smaller enterprises showed significantly greater losses than larger enterprises. Losses ranged from $4.47 per weaner equivalent or $81.30 per sow on farms marketing 500 to 999 weaners to as high as $56.41 per weaner equivalent or $796.06 per sow on farms marketing less than 100 weaners. Farms marketing 1,000 to 1,999 weaners per year sold their weaners at slightly heavier weights than average and received more per head. They also finished more hogs to market weight than average. Losses in the two largest size classes varied between $5.54 and $13.45 per weaner produced or $69 and $180 per sow.

The percentage return on investment is often used as an indicator of financial performance. It represents the portion earned on the operators equity and borrowed capital. The average farrow-wean enterprise on the

study did not realize a return on his investment. Only enterprises in Regions II and IV realized a return on investment averaging 3.9 and 3.3 per cent, respectively (Table 16). Farms marketing 1,000 to 1,999 weaners and farms marketing 3,000 weaners or more per year realized a return on investment of 7.1 and 3.1 per cent, respectively (Table 17). All other size classes showed no return on investment.

SECTION VII

SUMMARY AND CONCLUSION

Summary

In 1983 the Production and Resource Economics Branch of Alberta initiated a three-year study of the economics of farrow-wean hog production in Alberta. This report provides the information regarding farrow-wean production for the 1982 production year. The main purpose of the study was to provide an accurate account of input costs and the economic performance of farrow-wean hog production in Alberta.

The analysis of this report is based on data collected from 26 farrow-wean producers across Alberta. Each participant was personally interviewed. In turn, each received a detailed analysis of his hog operation. The producers also had the opportunity to compare their individual results to provincial, regional and size class averages.

The average age of operators on the study was 38 years, with 10 years of farming experience, 7 years of which were directly related to the hog enterprise.

Ownership was classified into either single proprietorship, partnership or corporation. Of the total farms surveyed, 58 per cent were single proprietorships, 35 per cent partnership and seven per cent corporations. Corporations were prevalent in Regions I and III, and on farms marketing 3,000 weaners or more per year. Single proprietorships were more prevalent, 62 to 75 per cent, on farms marketing fewer than 2,000 weaners per year. The farms marketing 2,000 to 2,999 weaners were all partnerships.

The average farrow-wean farm on the study was only 411 acres in size, with 80.5 per cent of this land developed and about 84 per cent deeded. Average acreage farmed ranged from 290 acres per farm in Region II to 495 acres in Region IV. Larger farrow-wean enterprises generally farmed proportionately more developed land than smaller enterprises.

Hog cash receipts contributed about 86 per cent of the 1982 total farm cash receipts in the 1982 sample. Farm debt was estimated to make

up almost 44 per cent of the value of total assets. Long term loans comprised 78 per cent of the total debt. Total farm assets were valued at $444,153 per farm, with equity being 56 per cent or $249,780. The average interest paid on loans in 1982 was almost 13 per cent.

Most of the operations (69 per cent) on the study had a continuous farrowing system. Twenty-seven per cent used a batch system and four per cent used both systems. Gilts were bred on average at 211 pounds and 191 days. Sows were bred 5.5 days after weaning. On average, conception rates at first service were relatively high, 84 per cent; by the second service 98 per cent of the sows conceived.

The main reasons for culling sows included litter size being too small (53.8 per cent); sows too old (15.4 per cent); sows not rebreeding (11.5 per cent); and a variety of other reasons (19.3 per cent). Fifty-six per cent of the gilts was recruited from within the herd, and 44 per cent was purchased.

Farrow-wean enterprise reported average death-loss of 17 per cent of the total number of head handled of the total number of head handled eighty-five per cent of the deaths, or 14.5 per cent of the head handled, occured at pre-weaning. Post weaning losses were estimated at two per cent of the head handled or 12 per cent of total losses. Deaths in the breeding herd accounted for less than one per cent of the head handled or three per cent of total losses.

The two main causes of pre-weaning death-losses were reported as crushing or trampling and scours. Weaning death-losses were the result of scours, runts, failure to eat, stress and pneumonia.

Seventy-three per cent of operators reported using confinement barns. Floors were mainly solid (58 per cent), or slotted (32 per cent); 10 per cent of the operations did use a combination of both.

Generally, dry sow accomodatons did not use a heat source. Heat lamps were the primary source of heat in farrowing barns, whereas, domestic hot air space-heating was the main heat source in weaning accommodations. Fans were used in farrowing barns by most producers. However, mechanical ventilation was not commonly provided for dry sows.

Watering for dry sow was mainly by bowl, whereas nipple watering was used in farrowing barns and weaning facilities.

The typical farrow-wean enterprise on study consisted of 100 sows and 5 boars. The southern region indicated smaller breeding herds than other regions in the province. Enterprises in Region I averaged 52 sows and 3 boars per farm; 75 sows and 5 boars were reported in Region II. Region III reported the largest herd size of 196 sows and 11 boars per farm, while Region IV averaged 104 sows and 3 boars per farm. The breeding herd increased from 15 sows and 1 boar per fram on farms marketing fewer than 100 weaners to 449 sows and 15 boars on farms selling 3,000 weaners or more per year.

Sows were replaced by gilts at an average annual rate of 20 per cent. This replacement rate ranged from nine per cent in Region III to 29 per cent in Region IV, and from 96 per cent on the smallest enterprises to 8 per cent on the largest. Fifty-six per cent of all gilts was recruited from within the herds and 44 per cent purchased.

As much as 42 per cent of the herds used a one boar exposure in their breeding program. Alternatively, 54 per cent of the herds used two boars, and four per cent used one boar in combination with artificial insemination. Artificial insemination was not very common; eight per cent of the enterprises reported ever using artificial insemination. Altogether, 84 per cent of the sows conceived after the first breeding and 98 per cent after the second.

Regionally, there was little variation in number of piglets weaned per sow from the sample average of 15.4 piglets per sow per year. However, piglets weaned per sow noticeably increased with the size of enterprise from 8.6 on the smallest enterprise to 17 on farms marketing 2,000 to 2,999 weaners per year.

The variation between weaners sold per sow was much greater ranging from 6.4 weaners in Region III to 12.6 in Region I and from 4.3 on farms marketing less than 100 weaners to 13.7 on farms marketing 1000 to 1999 weaners per year. The relatively low number of weaners sold per sow by enterprises marketing 3,000 or more weaners per year, was due simply to the purchases of sows in the latter part of the year to expand the breeding herd. The provincial average indicated sales of 10.2 weaners per sow in 1982.

Most farrow-wean enterprises weaned piglets in 33 days. Across regions, piglets were weaned at four to five weeks. Generally, larger

enterprises tended to wean early. The average days of weaning ranged from 39 days on the smallest farms to 21 days on the largest.

Production on the average farrow-wean operation was estimated at 557.2 hundred pounds of live weight or 1,444 weaner equivalents. Enterprises in Regions I and II reported the lower of production levels of 781 and 1,112 weaner equivalents per farm, respectively, in comparison to farms in Region III which recorded the highest production of 2,235 weaner equivalents per farm, and Region IV with 1,693 weaner equivalents per farm.

Production increased with size of enterprise from 216 weaner equivalents per farm on the smallest enterprise class to 5,586 weaner equivalents per farm on the largest farrow-wean farms.

The average weight of weaners at market was 42 pounds. Sale weights ranged from 36 pounds in Region III to 44 pounds in Region IV. Similarly, weaner weights varied between 36 and 42 pounds among all size classes except those enterprises marketing fewer than 100 weaners, and 1,000 to 1,999 weaners per year. In those two size classes weaners were sold at 56 and 47 pounds, respectively.

The average market value of assets associated with the farrow-wean enterprise was $144,305 per farm or $1,443 per sow. Region III reported the highest level of investment of $265,166 per farm; Region IV estimated total investment of $157,584 per farm. The southern region reported the lowest investment in farrow-wean enterprises of $90,582, followed by Region II with estimated investment of $94,644 per farm. However, investment per sow was significantly lower in Regions II and III, than in Regions I and IV.

The largest proportion of investment (66 per cent) was allocated to buildings and equipment. Eighteen per cent of the investment was attributed to breeding stock, eight per cent to machinery and other equipment, four per cent to feed storage and equipment, three per cent to land, and one per cent to manure storage and equipment.

As the size of enterprise increased, total value of assets increased from $34,584 or $2,306 per sow on farms marketing less than 100 weaners per year to $564,087 or $1,256 per sow on farms marketing 3,000 weaners or more per year. Although those enterprises marketing fewer than 1,000 weaners per year had farrow-wean asset valued of below $96,000, their

investment per sow was appreciably greater than those farms marketing 1,000 weaners or more per year.

The average annual depreciation of assets on farrow-wean enterprises on the study was $7325 or about 5 per cent of the total investment value. Region III with the largest enterprises indicated depreciation costs of $11,420 per farm, compared to Regions IV, I and II with average depreciation per farm of $8,146, $5,450 and $5,153, respectively. Depreciation costs rose from $2,900 per farm on the smallest enterprises to $22,576 per farm on the largest enterprises.

In most farrow-wean enterprises, an average of 2,955 man work units or about 1.18 man equivalents per farm were required. The operator himself contributed the greatest portion of labour, 61.9 per cent, or 1828 hours; family labour represented only 16.5 per cent of the labour or 487.1 hours per year. Hired labour played a major role on farrow-wean enterprises contributing 21.5 per cent or about 639.9 hours per year.

Of the total labour required on farrow-wean enterprises, 25 per cent was spent feeding and preparing feed, 27 per cent was allocated to breeding and farrowing, 21 per cent to cleaning and manure disposal, 13 per cent to moving and sorting, and four per cent to buying and marketing. An equal amount, five per cent of the labour was allocated to repairs of buildings and equipment, and to management and maintenance of records.

Labour use on farrow-wean enterprises varied with the region ranging from 5,300 hours per farm in Region III to only 1912 hours per farm in Region I. However, on a per sow basis, Region III reported 27 hours versus 37 hours in Region I.

The most efficient use of labour was reported in Region IV which required 1.75 hours per weaner equivalent. Region I indicated the lowest efficiency of 2.45 hours per weaner equivalent, whereas, Regions II and III used 2.12 and 2.37 hours per weaner equivalent, respectively.

As the size of enterprise increased, total labour increased as well. Total labour hours per farm increased from 1298 hours on farms marketing between 100 to 199 weaners to 11,095 hours on the largest size enterprises. Similarly, labour efficiency also increased from 10.5 hours per weaner equivalent on the smallest enterprise to 1.63 hours on farms marketing between 2,000 to 2,999 weaners per year.

The average cost associated with labour for 1982 was $18,059 or $12.51 per weaner equivalent. This cost constituted 22.4 per cent of the total production cost. Operator labour represented 69 per cent of the labour cost or $8.67 per weaner equivalent, and family labour contributed 11 per cent to the labour cost of $1.35 per weaner equivalent. Hired labour was very significant on farrow-wean enterprises contributing the remaining 20 per cent of the labour cost or $2.49 per weaner equivalent.

Total labour costs ranged from $11.00 per weaner equivalent in Region IV to $15.40 per weaner equivalent in Region I, and from $10.60 per weaner equivalent on farms marketing between 2,000 to 2,999 weaners to $56.91 on farms marketing fewer than 100 weaners per year.

Hired labour was treated as a cash cost and was only reported in Regions III and IV at $5.77 and $2.47 per weaner equivalent, respectively. Only farms marketing 2,000 weaners or more per year reported hired labour costs ranging between $2.03 to $6.90 per weaner equivalent.

On average, farrow-wean enterprises used 287 pounds of feed per weaner equivalent or 4,133 pounds of feed per sow in 1982. These amounts of feed also included feed used by the breeding stock. About 53 per cent of the feed used was home-grown. Grain, primarily barley, represented about 63 per cent of total feed used.

The average feed cost per weaner equivalent was $22.34 equalling almost 55 per cent of total cash costs and 40 per cent of the total production cost. Feed cost per sow was estimated at $322. Feed costs ranged from $20.08 per weaner equivalent in Region I to $25.61 per weaner equivalent in Region III, and from $14.40 per weaner equivalent on the smallest class of enterprises to $25.57 per weaner equivalent on the largest enterprises. Enterprises feeding fewer than 100 weaners per year only used 186 pounds of feed per weaner in contrast with 274 to 318 pounds in the other size classes.

The other cash costs for the average farrow-wean enterprise on the study amounted to $18.47 per weaner equivalent. The major components contributing to these costs were interest on capital loans, insurance, taxes and utilities, operating and repair costs and hired labour costs. Region III reported the highest other cash costs of $26.42 per weaner equivalent, compared to $14.13 per weaner equivalent as reported by Region I.

The total gross income per farm on farrow-wean farms was $68,922, corresponding to $47.72 per weaner equivalent or $688 per sow. The highest returns of $54.19 per weaner equivalent were reported in Region II, while the lowest gross income per weaner equivalent of $40.48 was recorded in Region III. Regions I and IV reported returns of $46.16 and $48.92 per weaner equivalent, respectively.

Total production costs on farrow-wean enterprises averaged $80,743 or $55.90 per weaner equivalent. The cost per sow was $807. Region III with the largest enterprise indicated the highest production costs of $64.85 per weaner equivalent. In contrast, the lowest cost of $51.21 per weaner equivalent was found in Region IV.

On average, the gross margin on farrow-wean enterprises was $6.91 per weaner equivalent or $99.47 per sow. The only region unable to cover the cash cost incurred over the year was Region III which reported the lowest per unit return and the highest unit costs. The gross margins in the other three regions ranged from $11.06 per weaner equivalent in Region IV to $16.53 per weaner equivalent in Region II.

Farrow-wean production was not profitable in 1982. Enterprises sustained losses averaging $8.18 per weaner equivalent or $119.45 per sow. Losses ranged from $1.29 per weaner equivalent in Region II to $24.37 per weaner equivalent in Region III.

Total gross income increased with size of enterprise, but income per weaner equivalent varied with size from $41.06 on farms marketing 500 to 999 weaners to $54.38 on farms marketing 100 to 199 weaners.

Other cash costs tended to decrease with size of enterprise. On smaller size farms, operating and repair costs contributed to higher other cash costs. The largest size enterprises reported higher hired labour costs which contributed to higher other cash costs.

Positive gross margins were reported in all size classes ranging from $1.16 per weaner equivalent on farms marketing 2,000 to 2,999 weaners to $18.33 per weaner equivalent on farms marketing 1,000 to 1,999 weaners per year. Indeed, enterprises marketing 2,000 or more weaners per year had significantly lower gross margins, than those marketing fewer than 1,000 weaners per year.

Only farms marketing between 1,000 and 1,999 weaners per year showed profits, estimated at $2.02 per weaner equivalent or $39.81 per sow. All

other size groups showed losses which ranged from $4.47 per weaner equivalent or $81.30 per sow on farms marketing 500 to 999 weaners to $56.41 per weaner equivalent or $796 per sow on farms marketing less than 100 weaners per year. Because of the non-cash costs, smaller enterprises showed significantly greater losses than larger enterprises.

The average farrow-wean operation on the study did not realize a return on investment. Only Regions II and IV realized a return on investment of 3.9 and 3.3 per cent, respectively. Farms marketing 1,000 to 1,999 weaners and farms marketing 3,000 weaners or more per year realized returns on investment of 7.1 and 3.1 per cent, respectively.

Given one dollar of farrow-wean income, about 47 cents was absorbed by feed, 39 cents by other cash inputs and 11 cents by depreciation (Graph 1a). Operator and family labour was assigned 21 cents, leaving an operating deficit of 17 cents. The average wage rate for operator and family labour was $6.25 per hour. If the operation was to break-even, the wage rate would have to be reduced to $1.14 per hour.

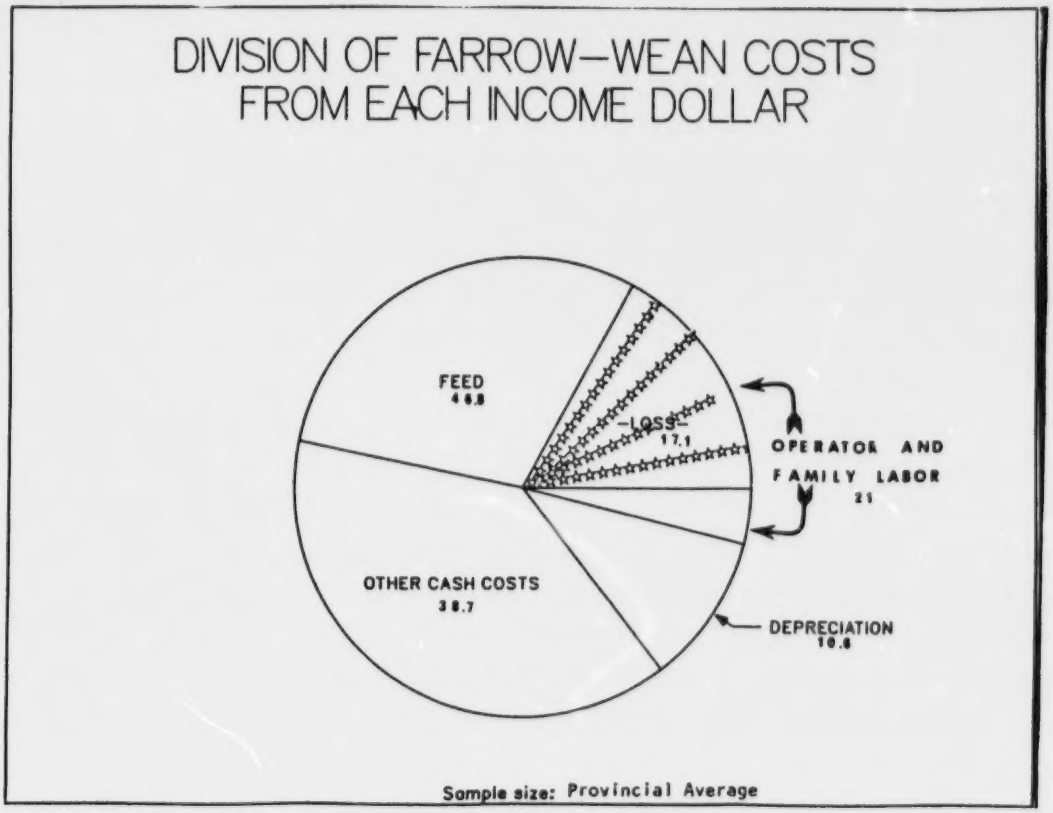
For every dollar of income generated on the most profitable farms (marketing 1,000 to 1,999 weaners), 42.5 cents was spent on feed, 21 cents on other cash inputs, eight cents on depreciation and 24.5 cents on family and operator labour (Graph 1b). Four cents from each dollar was leftover as profit or return to management.

Conclusion

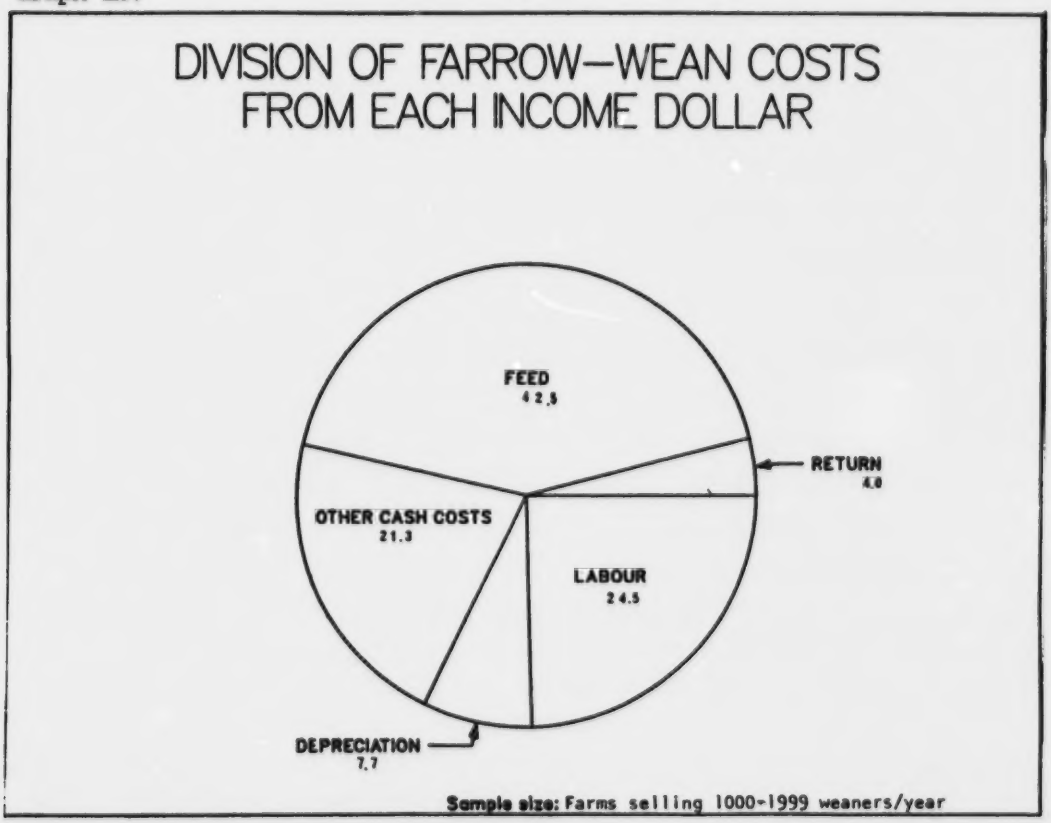
This study presents the analysis of farrow-wean production for 1982. Being the first year of a three-year study the results should be viewed as tentative. However, several conclusions may be drawn from the data. These include:

1. Farrow-wean enterprises tend to be smaller and less efficient in southern Alberta than in central and north-central Alberta.
2. Although the operator provided the main source of labour on farrow-wean operations, hired labour played a significant role particularly in Region III and on the largest size enterprises.

Graph 1a.



Graph 1b.



3. Just over half of the feed used on the average farrow-wean enterprise was home-grown. Feed was the major factor contributing to production costs. The southern region reported lower feed costs than central and northern Alberta.
4. Non-cash costs were lower in Regions III and IV than in the other regions of Alberta. These costs also decreased as the size of enterprise increased. The major factors contributing to non-cash costs were operator and family labour.
5. The average gross margin or return over cash costs for farrow-wean enterprises was $6.91 per weaner equivalent. On average and with the exception of those enterprises in Region III, all farms reported positive gross margins. Smaller enterprises tended to report higher gross margins than the largest enterprises.
6. Farrow-wean production was not profitable in 1982. Only farms marketing 1,000 to 1,999 weaners per year recorded a profit.
7. The average farrow-wean enterprise did not realize a return on investment. Regions II and IV realized returns on investment of 3.9 and 3.3 per cent. Farms marketing between 1,000 to 1,999 weaners and 3,000 weaners or more per year realized returns of 7.1 and 3.1 per cent, respectively.

APPENDIX A

^^^ INVESTMENT SCHEDULE ^^^

ENTERPRISE: FARROW WEAN FOR: TOTAL PROVINCE
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	COSTS PER YEAR DEPR.
LIVESTOCK:						
100SOWS $248.83/HEAD	24883.	24883.		100		
5BOARS $302.90/HEAD	1514.	1514.		100		
---GILTS $---/HEAD						
^^^^SUB-TOTAL	26397.	26397.			0.00	0.00
BUILDINGS:						
FARROWING BARN	69591.	69513.	19	100	486.62	3346.58
WEANING BARN	2040.	2040.	10	100	70.38	190.39
DRY SOW BARN	3587.	3587.	17	100	11.54	188.80
GROWER-FINISHER BARN	5159.	5159.	20	100	8.46	234.87
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT	15.	15.	20	100		0.69
OTHER	1939.	1939.	20	100	3.85	87.63
^^^^SUB-TOTAL	82332.	82255.			580.85	4048.97
OTHER BUILDINGS:						
BARNS	5738.	5703.	14	99	5.73	358.39
SHEDS	1935.	1935.	8	100	42.50	205.12
FEED TROUGHS	2.	2.	2	100		0.87
SELF-FEEDERS						
FENCING	908.	908.	9	100	36.73	95.60
OTHER	427.	427.	19	100	9.91	19.73
OTHER						
^^^^SUB-TOTAL	9010.	8975.			94.87	679.71
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	673.	673.	7	100	7.12	89.26
MANURE SPREADER	587.	264.	6	45	0.26	39.36
SUBMERSIBLE PUMP OR AGITATOR	150.	150.	10	100		13.50
OTHER	101.	101.	7	100	15.38	13.72
^^^^SUB-TOTAL	1512.	1189.			22.76	155.85
FEED STORAGE:						
---- STEEL BINS	1487.	1487.	22	100		60.87
---- WOODEN BINS	894.	894.	10	100	13.08	79.10
---- FEED BINS ---- TONNES	1144.	1144.	15	100	5.38	70.63
HIGH MOISTURE GRAIN						
OTHER	115.	115.	16	100		6.52
^^^^SUB-TOTAL	3641.	3641.			18.46	217.11
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	1637.	1637.	10	100	78.85	152.70
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	1238.	1073.	4	87	40.99	235.51
FEED CART	19.	19.	20	100		0.87
OTHER						
^^^^SUB-TOTAL	2894.	2729.			119.84	389.08
EQUIPMENT IN BARNS:						
---- CRATES	3265.	3265.	14	100	13.85	214.65
---- PENS ---- FT.	77.	77.	5	100		13.85
---- WATERERS	85.	85.	14	100	5.77	5.60
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS	87.	87.	10	100	11.54	7.87
---- HEAT LAMPS	27.	27.	4	100	8.62	5.63
---- VENTILATION	94.	94.	8	100	13.85	11.08
---- OTHER	65.	65.	7	100	11.54	7.96
^^^^SUB-TOTAL	3700.	3700.			65.15	266.63
EXTRA EQUIPMENT:						
WELL AND WATER LINES	3972.	3054.	21	77	32.23	132.55
SCALE ---- LB. CAPACITY	90.	90.	14	100		5.86
TRUCKS 1) 1/2 OR 3/4 TON	2669.	1266.	3	47	855.63	411.75
2) ONE OR TWO TON	1196.	839.	4	70	439.17	174.99
3) 3 TON	1673.	596.	7	36	129.76	75.74
TRACTORS 1) UP TO 75 H.P.	1996.	916.	5	46	357.76	166.98
2) 76 TO 110 H.P.	3351.	1262.	5	38	639.45	236.94
3) OVER 110 H.P.	4027.	1524.	11	32	381.23	129.32
STANDBY GENERATOR	10.	10.	5	100	1.35	1.73
PRESSURE WASHER	268.	259.	2	96	12.43	99.67
TOOLS AND VET., EQUIPMENT	533.	341.	5	64	17.46	61.19
GRAIN AUGER	674.	445.	9	66	7.62	45.90
OTHER	288.	263.	9	91	24.57	25.51
^^^^SUB-TOTAL	21548.	10866.			2898.65	1568.12
LAND - BLDGS. SITE & PASTURE	4626.	4554.		98		
TOTAL INVESTMENT	155661.	144305.			3800.59	7325.47

▲▲▲ INVESTMENT SCHEDULE ▲▲▲

ENTERPRISE: FARROW-WEAN FOR: REGION 1
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	DEPR.
LIVESTOCK:						
52 SOWS $249.04/HEAD	12950.	12950.		100		
3 BOARS $340./HEAD	1020.	1020.		100		
---GILTS $---/HEAD						
▲▲▲▲SUB-TOTAL	13970.	13970.			0.00	0.00
BUILDINGS:						
FARROWING BARN	33173.	33173.	22	100	906.00	1363.78
WEANING BARN	5091.	5091.	16	100	240.00	289.09
DRY SOW BARN	6080.	6080.	15	100	40.00	363.60
GROWER-FINISHER BARN	10800.	10800.	20	100		486.00
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT	80.	80.	20	100		3.60
OTHER						
▲▲▲▲SUB-TOTAL	55224.	55224.			1186.00	2506.07
OTHER BUILDINGS:						
BARNS						
SHEDS	1269.	1269.	9	100	40.00	126.99
FEED TROUGHS						
SELF-FEEDERS						
FENCING	100.	100.	20	100	40.00	4.50
OTHER						
OTHER						
▲▲▲▲SUB-TOTAL	1369.	1369.			80.00	131.49
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	500.	500.	5	100	7.00	90.00
MANURE SPREADER	400.	400.	9	100		40.00
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
▲▲▲▲SUB-TOTAL	900.	900.			7.00	130.00
FEED STORAGE:						
---- STEEL BINS	500.	500.	35	100		12.86
---- WOODEN BINS	800.	800.	15	100		48.00
---- FEED BINS ---- TONNES	540.	540.	17	100		29.31
HIGH MOISTURE GRAIN						
OTHER	460.	460.	15	100		27.60
▲▲▲▲SUB-TOTAL	2300.	2300.			0.00	117.77
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	700.	700.	10	100	20.00	63.00
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	500.	250.	4	50	20.00	56.25
FEED CART						
OTHER						
▲▲▲▲SUB-TOTAL	1200.	950.			40.00	119.25
EQUIPMENT IN BARNS:						
---- CRATES	2730.	2730.	10	100	60.00	244.12
---- PENS ---- FT.						
---- WATERERS	180.	180.	17	100	30.00	9.30
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS	455.	455.	10	100	60.00	40.91
---- HEAT LAMPS	85.	85.	11	100	40.80	7.20
---- VENTILATION	30.	30.	15	100		1.80
---- OTHER	200.	200.	10	100	40.00	18.00
▲▲▲▲SUB-TOTAL	3680.	3680.			230.80	321.34
EXTRA EQUIPMENT:						
WELL AND WATER LINES	2433.	1783.	30	73	65.96	53.55
SCALE ---- LB. CAPACITY	250.	250.	20	100		11.25
TRUCKS 1) 1/2 OR 3/4 TON	6179.	2702.	4	44	1103.69	642.06
2) ONE OR TWO TON	657.	460.	3	70	193.06	137.89
3) 3 TON	1700.	1010.	5	59	289.34	168.30
TRACTORS 1) UP TO 75 H.P.	3580.	2017.	5	56	792.59	349.56
2) 76 TO 110 H.P.	2500.	1410.	2	56	616.79	580.50
3) OVER 110 H.P.						
STANDBY GENERATOR	50.	50.	5	100	7.00	9.00
PRESSURE WASHER	304.	294.	4	97	28.99	61.60
TOOLS AND VET., EQUIPMENT	182.	182.	2	100		77.67
GRAIN AUGER	159.	129.	10	81	16.26	11.63
OTHER	260.	234.	10	90	108.00	21.06
▲▲▲▲SUB-TOTAL	19254.	10520.			3221.68	2124.08
LAND - BLDGS. SITE ∝ PASTURE	1670.	1670.		100		
TOTAL INVESTMENT	98566.	90582.			4765.48	5450.00

*** INVESTMENT SCHEDULE ***

ENTERPRISE: FARROW-WEAN FOR: REGION 2

CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	DEPR.
LIVESTOCK:						
75 SOWS $249.05/HEAD	18679.	18679.		100		
5 BOARS $257.40/HEAD	1299.	1289.		100		
---GILTS $---/HEAD						
****SUB-TOTAL	19968.	19968.			0.00	0.00
BUILDINGS:						
FARROWING BARN	41312.	41312.	15	100	578.57	2562.02
WEANING BARN						
DRY SOW BARN	1976.	1976.	18	100	7.14	98.57
GROWER-FINISHER BARN	4286.	4286.	20	100	28.57	192.86
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER	857.	857.	20	100		38.57
****SUB-TOTAL	48431.	48431.			614.29	2892.02
OTHER BUILDINGS:						
BARNS	2231.	2099.	10	94	20.16	188.90
SHEDS	571.	571.	2	100	42.86	233.14
FEED TROUGHS						
SELF-FEEDERS						
FENCING	1310.	1310.	10	100	50.00	117.43
OTHER	14.	14.	5	100		2.57
OTHER						
****SUB-TOTAL	4127.	3995.			113.02	542.04
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	1286.	1286.	14	100	21.43	83.57
MANURE SPREADER	1286.	129.	15	10	0.21	7.71
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
****SUB-TOTAL	2571.	1414.			21.64	91.29
FEED STORAGE:						
---- STEEL BINS	1057.	1057.	20	100		47.57
---- WOODEN BINS	314.	314.	11	100		26.57
---- FEED BINS ---- TONNES	943.	943.	17	100		50.79
HIGH MOISTURE GRAIN						
OTHER						
****SUB-TOTAL	2314.	2314.			0.00	124.93
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	871.	871.	18	100	171.43	43.71
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	1500.	1214.	4	81	69.39	243.37
FEED CART	71.	71.	20	100		3.21
OTHER						
****SUB-TOTAL	2443.	2157.			240.82	290.30
EQUIPMENT IN BARNS:						
---- CRATES	1429.	1429.	20	100		64.29
---- PENS ---- FT.	286.	286.	5	100		51.43
---- WATERERS	57.	57.	20	100		2.57
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS						
---- VENTILATION	214.	214.	10	100		19.29
---- OTHER	86.	86.	5	100		15.43
****SUB-TOTAL	2071.	2071.			0.00	153.00
EXTRA EQUIPMENT:						
WELL AND WATER LINES	6083.	4723.	20	78	22.18	212.54
SCALE ---- LB. CAPACITY	123.	123.	10	100		11.11
TRUCKS 1) 1/2 OR 3/4 TON	2486.	1239.	5	50	923.63	244.46
2) ONE OR TWO TON	586.	425.	6	73	156.52	63.96
3) 3 TON						
TRACTORS 1) UP TO 75 H.P.	429.	69.	10	16	81.78	6.17
2) 76 TO 110 H.P.	2714.	1047.	6	39	478.82	149.79
3) OVER 110 H.P.	2643.	2411.	12	91	1902.38	185.62
STANDBY GENERATOR						
PRESSURE WASHER	157.	151.	7	96	24.09	18.26
TOOLS AND VET., EQUIPMENT	586.	514.	7	88	48.29	65.57
GRAIN AUGER	436.	349.	9	80	8.00	35.42
OTHER	786.	736.	10	94	13.38	66.21
****SUB-TOTAL	17028.	11787.			3659.08	1059.12
LAND - BLDGS. SITE & PASTURE	2507.	2507.		100		
TOTAL INVESTMENT	101460.	94644.			4648.84	5152.69

*** INVESTMENT SCHEDULE ***

ENTERPRISE: FARROW-WEAN FOR: REGION 3
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	COSTS PER YEAR DEPR.
LIVESTOCK:						
196 SOWS $250./HEAD	49000.	49000.		100		
8 BOARS $282./HEAD	2263.	2263.		100		
---GILTS $---/HEAD						
****SUB-TOTAL	51263.	51263.			0.00	0.00
BUILDINGS:						
FARROWING BARN	170500.	170500.	20	100	439.10	7818.75
WEANING BARN						
DRY SOW BARN	7750.	7750.	25	100		279.00
GROWER-FINISHER BARN						
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER	10000.	10000.	25	100		360.00
****SUB-TOTAL	188250.	188250.			439.10	8457.75
OTHER BUILDINGS:						
BARNS	2000.	2000.	25	100		72.00
SHEDS	1000.	1000.	5	100		180.00
FEED TROUGHS	13.	13.	2	100		5.62
SELF-FEEDERS						
FENCING	100.	100.	1	100		90.00
OTHER	2750.	2750.	20	100	64.40	123.75
OTHER						
****SUB-TOTAL	5863.	5863.			64.40	471.37
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER						
MANURE SPREADER	300.	225.	10	75		19.50
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
****SUB-TOTAL	300.	225.			0.00	19.50
FEED STORAGE:						
---- STEEL BINS						
---- WOODEN BINS	375.	375.	4	100		84.37
---- FEED BINS ---- TONNES	125.	125.	5	100		22.50
HIGH MOISTURE GRAIN						
OTHER						
****SUB-TOTAL	500.	500.			0.00	106.87
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL						
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	625.	438.	3	70		131.25
FEED CART						
OTHER						
****SUB-TOTAL	625.	438.			0.00	131.25
EQUIPMENT IN BARNS:						
---- CRATES						
---- PENS ---- FT.						
---- WATERERS						
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS	13.	13.	1	100		11.25
---- VENTILATION						
---- OTHER						
****SUB-TOTAL	13.	13.			0.00	11.25
EXTRA EQUIPMENT:						
WELL AND WATER LINES	1700.	1400.	22	82	3.09	56.70
SCALE ---- LB. CAPACITY						
TRUCKS 1) 1/2 OR 3/4 TON	1500.	1013.	1	67	1609.54	902.25
2) ONE OR TWO TON	1425.	1425.	4	100	1430.00	307.50
3) 3 TON	1125.	113.	5	10	43.65	20.25
TRACTORS 1) UP TO 75 H.P.	3750.	1988.	6	53	471.40	289.12
2) 76 TO 110 H.P.						
3) OVER 110 H.P.	15000.	5100.	10	34	605.88	462.86
STANDBY GENERATOR						
PRESSURE WASHER	238.	206.	2	87		81.84
TOOLS AND VET., EQUIPMENT	175.	113.	5	64		20.25
GRAIN AUGER	1313.	728.	8	55	9.01	81.70
OTHER						
****SUB-TOTAL	26225.	12084.			4172.57	2222.48
LAND - BLDGS. SITE & PASTURE	7000.	6531.		93		
TOTAL INVESTMENT	280038.	265166.			4676.07	11420.48

*** INVESTMENT SCHEDULE ***

ENTERPRISE: FARROW- MEAN FOR: REGION 4

CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	DEPR.
LIVESTOCK:						
104 SOWS $245./HEAD	25545.	25545.		100		
6 BOARS $270./HEAD	1620.	1620.		100		
---GILTS $---/HEAD						
****SUB-TOTAL	27165.	27165.			0.00	0.00
BUILDINGS:						
FARROWING BARN	67233.	67030.	19	100	232.30	3098.31
WEANING BARN	2760.	2760.	7	100	63.00	350.45
DRY SOW BARN	1803.	1803.	13	100	5.00	128.48
GROWER-FINISHER BARN	5014.	5014.	19	100	2.00	232.67
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER	442.	442.	7	100	10.00	56.84
****SUB-TOTAL	77251.	77048.			312.30	3866.76
OTHER BUILDINGS:						
BARNS	12558.	12558.	15	100		770.80
SHEDS	3598.	3598.	14	100	60.50	234.61
FEED TROUGHS						
SELF-FEEDERS						
FENCING	1353.	1353.	10	100	40.50	128.11
OTHER						
OTHER						
****SUB-TOTAL	17509.	17509.			101.00	1133.52
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	600.	600.	4	100		128.57
MANURE SPREADER	307.	307.	4	100		69.14
SUBMERSIBLE PUMP OR AGITATOR	390.	390.	10	100		35.10
OTHER	263.	263.	7	100	40.00	35.68
****SUB-TOTAL	1561.	1561.			40.00	268.50
FEED STORAGE:						
---- STEEL BINS	2877.	2877.	22	100		118.53
---- WOODEN BINS	1553.	1553.	11	100	34.00	129.31
---- FEED BINS ---- TONNES	1995.	1995.	14	100	14.00	124.42
HIGH MOISTURE GRAIN						
OTHER	70.	70.	20	100		3.15
****SUB-TOTAL	6495.	6495.			48.00	375.41
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	3295.	3295.	9	100	75.00	334.93
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	1670.	1640.	4	98	42.23	361.35
FEED CART						
OTHER						
****SUB-TOTAL	4965.	4935.			117.23	696.28
EQUIPMENT IN BARNS:						
---- CRATES	6123.	6123.	14	100	6.00	391.03
---- PENS ---- FT.						
---- WATERERS	90.	90.	10	100		8.10
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS	23.	23.	3	100	2.00	6.54
---- VENTILATION	80.	80.	5	100	36.00	14.40
---- OTHER	10.	10.	10	100	10.00	0.90
****SUB-TOTAL	6326.	6326.			54.00	420.97
EXTRA EQUIPMENT:						
WELL AND WATER LINES	4173.	3181.	20	76	32.40	146.39
SCALE ---- LB. CAPACITY	24.	24.	12	100		1.83
TRUCKS 1) 1/2 OR 3/4 TON	1510.	670.	3	44	521.31	217.50
2) ONE OR TWO TON	1900.	1085.	4	60	461.40	218.25
3) 3 TON	3050.	1001.	9	33	173.33	104.66
TRACTORS 1) UP TO 75 H.P.	1600.	530.	3	33	202.13	139.40
2) 76 TO 110 H.P.	5563.	1843.	8	33	993.67	220.95
3) OVER 110 H.P.	4700.	235.	10	5	48.33	21.15
STANDBY GENERATOR						
PRESSURE WASHER	340.	337.	2	99	0.99	182.82
TOOLS AND VET., EQUIPMENT	816.	391.	5	48	15.57	66.26
GRAIN AUGER	844.	558.	9	66	4.30	56.04
OTHER	70.	53.	5	75		9.45
****SUB-TOTAL	24489.	9907.			2453.44	1384.71
LAND - BLDGS. SITE & PASTURE	6638.	6638.		100		
TOTAL INVESTMENT	172399.	157584.			3125.96	8146.15

*** INVESTMENT SCHEDULE ***

ENTERPRISE: FARROW- WEAN FOR: <100 HEAD

CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	COSTS PER YEAR DEPR.
LIVESTOCK:						
15 SOWS $255.53/HEAD	3833.	3833.		100		
1 BOARS $358/HEAD	358.	358.		100		
---GILTS $---/HEAD						
****SUB-TOTAL	4192.	4192.			0.00	0.00
BUILDINGS:						
FARROWING BARN	13247.	13247.	18	100	500.00	677.94
WEANING BARN						
DRY SOW BARN						
GROWER-FINISHER BARN						
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER						
****SUB-TOTAL	13247.	13247.			500.00	677.94
OTHER BUILDINGS:						
BARNS	1538.	1231.	10	80		110.76
SHEDS	933.	933.	10	100	16.67	84.00
FEED TROUGHS						
SELF-FEEDERS						
FENCING	909.	909.	15	100	16.67	54.54
OTHER	33.	33.	5	100		6.00
OTHER						
****SUB-TOTAL	3414.	3106.			33.33	255.30
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER						
MANURE SPREADER						
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
****SUB-TOTAL	0.	0.			0.00	0.00
FEED STORAGE:						
---- STEEL BINS						
---- WOODEN BINS	1567.	1567.	10	100		137.00
---- FEED BINS ---- TONNES	400.	400.	2	100		156.00
HIGH MOISTURE GRAIN						
OTHER						
****SUB-TOTAL	1967.	1967.			0.00	293.00
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	778.	778.	1	100	83.33	663.90
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	167.	167.	4	100	83.33	37.50
FEED CART						
OTHER						
****SUB-TOTAL	944.	944.			166.67	701.40
EQUIPMENT IN BARNS:						
---- CRATES	833.	833.	20	100		37.50
---- PENS ---- FT.						
---- WATERERS						
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS	67.	67.	3	100		20.00
---- VENTILATION						
---- OTHER						
****SUB-TOTAL	900.	900.			0.00	57.50
EXTRA EQUIPMENT:						
WELL AND WATER LINES	2536.	1273.	20	50	5.02	57.27
SCALE ---- LB. CAPACITY						
TRUCKS 1) 1/2 OR 3/4 TON	1200.	123.	3	10	128.47	43.90
2) ONE OR TWO TON	667.	533.	2	80	812.00	240.00
3) 3 TON	1333.	1067.	10	80	685.33	96.00
TRACTORS 1) UP TO 75 H.P.	1000.	160.	10	16	190.83	14.40
2) 76 TO 110 H.P.	9375.	1875.	5	20	1047.00	337.50
3) OVER 110 H.P.						
STANDBY GENERATOR						
PRESSURE WASHER						
TOOLS AND VET., EQUIPMENT	1767.	567.	5	32	3.74	102.00
GRAIN AUGER	433.	197.	7	45	3.03	24.15
OTHER						
****SUB-TOTAL	18311.	5794.			2875.42	915.22
LAND - BLDGS. SITE & PASTURE	4433.	4433.		100		
TOTAL INVESTMENT	47408.	34584.			3575.42	2900.36

⁂⁂ INVESTMENT SCHEDULE ⁂⁂

ENTERPRISE: FARROW- WEAN FOR: 100-199 SIZE
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	•/• USE TO ENTERPRISE	COSTS PER YEAR OPER.	DEPR.
LIVESTOCK:						
27 SOWS $247.70/HEAD	6688.	6688.		100		
2 BOARS $269/HEAD	538.	538.		100		
---GILTS $---/HEAD						
⁂⁂SUB-TOTAL	7225.	7225.			0.00	0.00
BUILDINGS:						
FARROWING BARN	5406.	4900.	9	91	18.13	495.00
WEANING BARN						
DRY SOW BARN	100.	100.	20	100		4.50
GROWER-FINISHER BARN						
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT	100.	100.	20	100		4.50
OTHER	10000.	10000.	25	100		360.00
⁂⁂SUB-TOTAL	15606.	15100.			18.13	864.00
OTHER BUILDINGS:						
BARNS						
SHEDS	1050.	1050.	4	100	25.00	225.00
FEED TROUGHS	13.	13.	2	100		5.62
SELF-FEEDERS						
FENCING	225.	225.	2	100	50.00	95.62
OTHER						
OTHER						
⁂⁂SUB-TOTAL	1288.	1288.			75.00	326.25
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER						
MANURE SPREADER	300.	225.	10	75		19.50
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
⁂⁂SUB-TOTAL	300.	225.			0.00	19.50
FEED STORAGE:						
---- STEEL BINS						
---- WOODEN BINS	1500.	1500.	8	100	5.00	166.87
---- FEED BINS ---- TONNES	125.	125.	5	100		22.50
HIGH MOISTURE GRAIN						
OTHER						
⁂⁂SUB-TOTAL	1625.	1625.			5.00	189.37
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL						
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	625.	438.	3	70		131.25
FEED CART						
OTHER						
⁂⁂SUB-TOTAL	625.	438.			0.00	131.25
EQUIPMENT IN BARNS:						
---- CRATES						
---- PENS ---- FT.						
---- WATERERS	100.	100.	15	100		6.00
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS	25.	25.	2	100	6.00	11.81
---- VENTILATION	38.	38.	15	100		2.25
---- OTHER						
⁂⁂SUB-TOTAL	163.	163.			6.00	20.06
EXTRA EQUIPMENT:						
WELL AND WATER LINES	3062.	2503.	21	82	8.17	108.80
SCALE ---- LB. CAPACITY	313.	313.	20	100		14.06
TRUCKS 1) 1/2 OR 3/4 TON	3125.	1100.	4	35	909.48	226.69
2) ONE OR TWO TON						
3) 3 TON	1750.	269.	4	15	97.59	55.41
TRACTORS 1) UP TO 75 H.P.	4600.	1896.	4	41	931.72	441.45
2) 76 TO 110 H.P.						
3) OVER 110 H.P.	15000.	5100.	10	34	605.88	462.86
STANDBY GENERATOR						
PRESSURE WASHER	163.	131.	8	81		14.34
TOOLS AND VET., EQUIPMENT	313.	188.	6	60	7.50	26.44
GRAIN AUGER	788.	314.	8	40	6.99	34.37
OTHER						
⁂⁂SUB-TOTAL	29112.	11814.			2567.33	1384.41
LAND - BLDGS. SITE « PASTURE	4875.	4406.		90		
TOTAL INVESTMENT	60819.	42282.			2671.46	2934.85

⁂⁂ INVESTMENT SCHEDULE ⁂⁂

ENTERPRISE: FARROW-WEAN FOR: 200-499 SIZE
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	DEPR.
LIVESTOCK:						
46 SOWS $251.90/HEAD	11583.	11583.		100		
3 BOARS $261./HEAD	783.	783.		100		
---GILTS $---/HEAD						
⁂⁂SUB-TOTAL	12367.	12367.			0.00	0.00
BUILDINGS:						
FARROWING BARN	55924.	55924.	25	100	50.00	2035.62
WEANING BARN						
DRY SOW BARN	167.	167.	5	100	16.67	30.00
GROWER-FINISHER BARN	10000.	10000.	20	100	66.67	450.00
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER						
⁂⁂SUB-TOTAL	66091.	66091.			133.33	2515.62
OTHER BUILDINGS:						
BARNS						
SHEDS	1647.	1647.	14	100	18.33	105.90
FEED TROUGHS						
SELF-FEEDERS						
FENCING	1078.	1078.	5	100	110.00	204.57
OTHER						
OTHER						
⁂⁂SUB-TOTAL	2725.	2725.			128.33	310.47
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER						
MANURE SPREADER	3000.	300.	15	10	0.50	18.00
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
⁂⁂SUB-TOTAL	3000.	300.			0.50	18.00
FEED STORAGE:						
---- STEEL BINS	1800.	1800.	19	100		83.37
---- WOODEN BINS						
---- FEED BINS ---- TONNES	100.	100.	12	100	10.00	7.29
HIGH MOISTURE GRAIN						
OTHER						
⁂⁂SUB-TOTAL	1900.	1900.			10.00	90.65
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL						
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	2267.	1683.	3	74	12.38	460.50
FEED CART						
OTHER						
⁂⁂SUB-TOTAL	2267.	1683.			12.38	460.50
EQUIPMENT IN BARNS:						
---- CRATES						
---- PENS ---- FT.						
---- WATERERS						
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS						
---- VENTILATION						
---- OTHER						
⁂⁂SUB-TOTAL	0.	0.			0.00	0.00
EXTRA EQUIPMENT:						
WELL AND WATER LINES	5684.	3215.	20	57	28.28	145.98
SCALE ---- LB. CAPACITY	12.	12.	5	100		2.10
TRUCKS 1) 1/2 OR 3/4 TON	2500.	917.	2	37	778.56	367.50
2) ONE OR TWO TON						
3) 3 TON	2000.	260.	9	13	70.11	26.00
TRACTORS 1) UP TO 75 H.P.	1667.	417.	9	25	210.00	41.67
2) 76 TO 110 H.P.	3000.	360.	2	12	180.00	162.00
3) OVER 110 H.P.						
STANDBY GENERATOR						
PRESSURE WASHER	233.	233.	3	100		70.00
TOOLS AND VET., EQUIPMENT	350.	283.	6	81	40.48	44.33
GRAIN AUGER	583.	308.	9	53	1.76	31.42
OTHER	1167.	1050.	10	90	15.00	94.50
⁂⁂SUB-TOTAL	17196.	7055.			1324.19	985.50
LAND - BLDGS. SITE « PASTURE	4692.	4692.		100		
TOTAL INVESTMENT	110237.	96813.			1608.74	4380.74

*** INVESTMENT SCHEDULE ***

ENTERPRISE: FARROW- WEAN FOR: 500-999 SIZE
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	COSTS PER YEAR DEPR.
LIVESTOCK:						
62 SOWS $249/HEAD	15469.	15469.		100		
4 BOARS $281/HEAD	1125.	1125.		100		
---GILTS $---/HEAD						
****SUB-TOTAL	16594.	16594.			0.00	0.00
BUILDINGS:						
FARROWING BARN	38675.	38675.	20	100	338.30	1703.10
WEANING BARN	2619.	2619.	16	100	31.25	147.33
DRY SOW BARN	3875.	3875.	25	100		139.50
GROWER-FINISHER BARN	6750.	6750.	20	100		303.75
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER						
****SUB-TOTAL	51919.	51919.			369.55	2293.68
OTHER BUILDINGS:						
BARNS	1026.	1026.	16	100		59.17
SHEDS	1718.	1718.	12	100	37.50	125.87
FEED TROUGHS						
SELF-FEEDERS						
FENCING	1147.	1147.	13	100	25.00	79.61
OTHER	1375.	1375.	20	100	32.20	61.87
OTHER						
****SUB-TOTAL	5265.	5265.			94.70	326.53
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	375.	375.	3	100		112.50
MANURE SPREADER	250.	250.	9	100		25.00
SUBMERSIBLE PUMP OR AGITATOR						
OTHER	288.	288.	10	100		25.87
****SUB-TOTAL	913.	913.			0.00	163.37
FEED STORAGE:						
---- STEEL BINS	688.	688.	25	100		24.91
---- WOODEN BINS	331.	331.	8	100	2.50	36.24
---- FEED BINS ---- TONNES	681.	681.	16	100	1.25	37.80
HIGH MOISTURE GRAIN						
OTHER	375.	375.	16	100		21.19
****SUB-TOTAL	2075.	2075.			3.75	120.14
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	1125.	1125.	16	100	37.50	64.12
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	875.	688.	5	79	54.02	116.32
FEED CART						
OTHER						
****SUB-TOTAL	2000.	1813.			91.52	180.44
EQUIPMENT IN BARNS:						
---- CRATES	2797.	2797.	10	100	45.00	252.31
---- PENS ---- FT.						
---- WATERERS	175.	175.	12	100	18.75	12.94
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS	284.	284.	10	100	37.50	25.57
---- HEAT LAMPS	51.	51.	9	100	25.00	4.89
---- VENTILATION	100.	100.	5	100	45.00	18.00
---- OTHER	138.	138.	10	100	37.50	12.37
****SUB-TOTAL	3545.	3545.			208.75	326.08
EXTRA EQUIPMENT:						
WELL AND WATER LINES	2991.	2178.	21	73	45.50	92.75
SCALE ---- LB. CAPACITY	58.	58.	10	100		5.22
TRUCKS 1) 1/2 OR 3/4 TON	2737.	1162.	3	42	737.69	322.44
2) ONE OR TWO TON	1098.	834.	4	76	385.97	180.40
3) 3 TON	500.	125.	8	25	29.84	14.06
TRACTORS 1) UP TO 75 H.P.	2625.	1281.	7	49	242.20	163.12
2) 76 TO 110 H.P.	3000.	1756.	4	59	919.40	441.56
3) OVER 110 H.P.						
STANDBY GENERATOR	31.	31.	5	100	4.38	5.62
PRESSURE WASHER	253.	237.	3	94	32.32	72.93
TOOLS AND VET., EQUIPMENT	259.	227.	3	88	13.74	63.11
GRAIN AUGER	562.	330.	9	59	7.34	34.31
OTHER	63.	56.	10	90		5.06
****SUB-TOTAL	14176.	8277.			2418.37	1400.60
LAND - BLDGS. SITE « PASTURE	4644.	4644.		100		
TOTAL INVESTMENT	101130.	95044.			3186.64	4810.86

*** INVESTMENT SCHEDULE ***

ENTERPRISE: FARROW-MEAN . FOR: 1000-1999 SIZE
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	DEPR.
LIVESTOCK:						
106 SOWS $250./HEAD	26500.	26500.		100		
7 BOARS $285./HEAD	2000.	2000.		100		
---GILTS $---/HEAD						
****SUB-TOTAL	28500.	28500.			0.00	0.00
BUILDINGS:						
FARROWING BARN	58611.	58611.	16	100	2566.67	3274.99
WEANING BARN	7778.	7778.	12	100	450.00	599.98
DRY SOW BARN	13509.	13509.	13	100	83.33	915.78
GROWER-FINISHER BARN	1563.	1563.	15	100	6.67	93.76
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER	3474.	3474.	11	100	33.33	279.47
****SUB-TOTAL	84934.	84934.			3140.00	5163.98
OTHER BUILDINGS:						
BARNS						
SHEDS						
FEED TROUGHS						
SELF-FEEDERS						
FENCING	139.	139.	5	100	25.00	25.02
OTHER						
OTHER						
****SUB-TOTAL	139.	139.			25.00	25.02
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	2500.	2500.	10	100	11.67	225.00
MANURE SPREADER						
SUBMERSIBLE PUMP OR AGITATOR						
OTHER						
****SUB-TOTAL	2500.	2500.			11.67	225.00
FEED STORAGE:						
---- STEEL BINS						
---- WOODEN BINS	2500.	2500.	15	100	66.67	150.00
---- FEED BINS ---- TONNES	600.	600.	17	100	33.33	31.50
HIGH MOISTURE GRAIN						
OTHER						
****SUB-TOTAL	3100.	3100.			100.00	181.50
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	150.	150.	5	100	333.33	27.00
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	667.	667.	2	100	16.67	300.00
FEED CART	167.	167.	20	100		7.50
OTHER						
****SUB-TOTAL	983.	983.			350.00	334.50
EQUIPMENT IN BARNS:						
---- CRATES	3333.	3333.	20	100		150.00
---- PENS ---- FT.	667.	667.	5	100		120.00
---- WATERERS	133.	133.	20	100		6.00
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS						
---- VENTILATION	500.	500.	10	100		45.00
---- OTHER	200.	200.	5	100		36.00
****SUB-TOTAL	4833.	4833.			0.00	357.00
EXTRA EQUIPMENT:						
WELL AND WATER LINES	10217.	9567.	21	94	15.61	403.53
SCALE ---- LB. CAPACITY	133.	133.	10	100		12.00
TRUCKS 1) 1/2 OR 3/4 TON	4633.	2837.	4	61	1279.56	660.00
2) ONE OR TWO TON	3200.	950.	10	30	113.51	85.50
3) 3 TON	1500.	1350.	5	90	444.00	243.00
TRACTORS 1) UP TO 75 H.P.	500.	500.	10	100	15.87	45.00
2) 76 TO 110 H.P.	6167.	2517.	10	41	1192.76	226.50
3) OVER 110 H.P.	2167.	1625.	20	75	936.00	73.12
STANDBY GENERATOR						
PRESSURE WASHER	333.	333.	7	100	16.67	45.00
TOOLS AND VET., EQUIPMENT	433.	383.	9	88	29.49	36.43
GRAIN AUGER	667.	500.	10	75	12.50	45.00
OTHER	267.	240.	10	90	180.00	21.60
****SUB-TOTAL	30217.	20936.			4235.96	1896.68
LAND - BLDGS. SITE & PASTURE	483.	483.		100		
TOTAL INVESTMENT	155690.	146408.			7862.62	8183.68

▲▲▲ INVESTMENT SCHEDULE ▲▲▲

ENTERPRISE: FARROW- MEAN FOR: 2000-3000 SIZE
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	COSTS PER YEAR DEPR.
LIVESTOCK:						
201 SOWS $ 242./HEAD	48733.	48733.		100		
10 BOARS $ 326./HEAD	3267.	3267.		100		
---GILTS $---/HEAD						
▲▲▲▲SUB-TOTAL	52000.	52000.			0.00	0.00
BUILDINGS:						
FARROWING BARN	120000.	120000.	16	100	176.67	6788.57
WEANING BARN	2921.	2921.	4	100	76.67	657.15
DRY SOW BARN	4444.	4444.	20	100		199.99
GROWER-FINISHER BARN						
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER						
▲▲▲▲SUB-TOTAL	127365.	127365.			253.33	7645.72
OTHER BUILDINGS:						
BARNS	45459.	45459.	14	100	50.00	2837.52
SHEDS	8211.	8211.	8	100	200.00	952.14
FEED TROUGHS						
SELF-FEEDERS						
FENCING	2051.	2051.	10	100	33.33	184.62
OTHER						
OTHER						
▲▲▲▲SUB-TOTAL	55721.	55721.			283.33	3974.28
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	1333.	1333.	10	100	50.00	120.00
MANURE SPREADER	1024.	1024.	4	100		230.47
SUBMERSIBLE PUMP OR AGITATOR						
OTHER	111.	111.	2	100	133.33	49.95
▲▲▲▲SUB-TOTAL	2469.	2469.			183.33	400.42
FEED STORAGE:						
---- STEEL BINS	4258.	4258.	19	100		197.73
---- WOODEN BINS	794.	794.	9	100	33.33	79.40
---- FEED BINS ---- TONNES	1167.	1167.	13	100		82.50
HIGH MOISTURE GRAIN						
OTHER						
▲▲▲▲SUB-TOTAL	6218.	6218.			33.33	359.63
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL						
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	2333.	2233.	5	96	105.29	373.93
FEED CART						
OTHER						
▲▲▲▲SUB-TOTAL	2333.	2233.			105.29	373.93
EQUIPMENT IN BARNS:						
---- CRATES	16667.	16667.	15	100		1000.00
---- PENS ---- FT.						
---- WATERERS						
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS						
---- VENTILATION						
---- OTHER						
▲▲▲▲SUB-TOTAL	16667.	16667.			0.00	1000.00
EXTRA EQUIPMENT:						
WELL AND WATER LINES	3863.	3197.	20	83	88.28	147.17
SCALE ---- LB. CAPACITY						
TRUCKS 1) 1/2 OR 3/4 TON	2000.	1333.	5	67	617.78	255.00
2) ONE OR TWO TON	2000.	2000.	5	100	746.67	360.00
3) 3 TON	6000.	1800.	9	30	30.00	180.00
TRACTORS 1) UP TO 75 H.P.	667.	667.	2	100	354.00	300.00
2) 76 TO 110 H.P.	2500.	1500.	9	60	523.60	150.00
3) OVER 110 H.P.	4000.	4000.	10	100	3418.33	360.00
STANDBY GENERATOR						
PRESSURE WASHER	568.	568.	1	100	3.33	445.20
TOOLS AND VET., EQUIPMENT	567.	567.	6	100	83.33	90.00
GRAIN AUGER	1380.	1380.	10	100	16.67	128.40
OTHER	667.	667.	10	100	16.67	60.00
▲▲▲▲SUB-TOTAL	24211.	17678.			6098.66	2475.77
LAND - BLDGS. SITE & PASTURE	6600.	6600.		100		
TOTAL INVESTMENT	293584.	286951.			6957.28	16229.75

^^^ INVESTMENT SCHEDULE ^^^

ENTERPRISE: FARROW- WEAN FOR: 3000 HEAD
CURRENT (1982) MARKET VALUE OF CAPITAL ASSETS ASSOCIATED WITH THE HOG ENTERPRISE

	CURRENT VALUE	ENTERPRISE VALUE	REMAIN. LIFE	*/* USE TO ENTERPRISE	COSTS PER YEAR OPER.	COSTS PER YEAR DEPR.
LIVESTOCK:						
449SOWS @ 250/HEAD	112250.	112250.		100		
15BOARS @ 300/HEAD	4500.	4500.		100		
---GILTS @---/HEAD						
^^^^SUB-TOTAL	116750.	116750.			0.00	0.00
BUILDINGS:						
FARROWING BARN	367500.	367500.	20	100		16537.50
WEANING BARN						
DRY SOW BARN	3750.	3750.	20	100		168.75
GROWER-FINISHER BARN	22727.	22727.	20	100		1022.72
OFFICE BUILDING						
ELECTRICAL FOR COMPLETE UNIT						
OTHER						
^^^^SUB-TOTAL	393977.	393977.			0.00	17728.96
OTHER BUILDINGS:						
BARNS						
SHEDS						
FEED TROUGHS						
SELF-FEEDERS						
FENCING	500.	500.	15	100		30.00
OTHER						
OTHER						
^^^^SUB-TOTAL	500.	500.			0.00	30.00
MANURE STORAGE, HANDLING SYSTEM:						
LAGOON						
STORAGE PIT						
FARROWING BARN						
GROWER-FINISHING BARN						
LIQUID MANURE SPREADER	1500.	1500.	7	100		192.86
MANURE SPREADER						
SUBMERSIBLE PUMP OR AGITATOR	1950.	1950.	10	100		175.50
OTHER						
^^^^SUB-TOTAL	3450.	3450.			0.00	368.36
FEED STORAGE:						
---- STEEL BINS	7500.	7500.	25	100		270.00
---- WOODEN BINS						
---- FEED BINS ---- TONNES	8500.	8500.	25	100		306.00
HIGH MOISTURE GRAIN						
OTHER						
^^^^SUB-TOTAL	16000.	16000.			0.00	576.00
FEEDING EQUIPMENT:						
ELECTRIC HAMMER MILL	15385.	15385.	20	100	250.00	692.30
FEED CONVEYORS						
GRINDER						
MOBILE GRINDER/MIXER	3200.	3200.	5	100		576.00
FEED CART						
OTHER						
^^^^SUB-TOTAL	18585.	18585.			250.00	1268.30
EQUIPMENT IN BARNS:						
---- CRATES						
---- PENS ---- FT.						
---- WATERERS						
---- SELF-FEEDERS						
---- INDIVIDUAL STALLS						
---- HEAT LAMPS						
---- VENTILATION						
---- OTHER						
^^^^SUB-TOTAL	0.	0.			0.00	0.00
EXTRA EQUIPMENT:						
WELL AND WATER LINES	100.	100.	25	100		3.40
SCALE ---- LB. CAPACITY	100.	100.	15	100		6.00
TRUCKS 1) 1/2 OR 3/4 TON	2000.	1800.	1	90	1566.90	1620.00
2) ONE OR TWO TON	2350.	2350.	4	100	2083.75	525.00
3) 3 TON						
TRACTORS 1) UP TO 75 H.P.	500.	375.	10	75	19.88	33.75
2) 76 TO 110 H.P.						
3) OVER 110 H.P.	23500.	1175.	10	5	241.65	105.75
STANDBY GENERATOR						
PRESSURE WASHER	450.	450.	3	100		135.00
TOOLS AND VET., EQUIPMENT	600.	450.	5	75		81.00
GRAIN AUGER	350.	263.	5	75		47.25
OTHER	350.	263.	5	75		47.25
^^^^SUB-TOTAL	30300.	7325.			4712.17	2604.60
LAND - BLDGS. SITE & PASTURE	7500.	7500.		100		
TOTAL INVESTMENT	587062.	564087.			4962.17	22576.22

APPENDIX B

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA.

TYPE OF ENTERPRISE: FARROW-WEAN FOR: TOTAL PROVINCE				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
40 ▲MARKET HOGS	65.1 CWT DRS	$ 83.24/CWT		5423.23	54.11	3.75
21 SOWS	63.8 CWT DRS	$ 63.20/CWT		4037.19	40.28	2.80
2 BOARS	5.1 CWT DRS	$ 53.62/CWT		274.04	2.73	0.19
1024 ▲WEANERS	1024.4 HEAD	$ 48.85/HEAD		50037.92	499.23	34.64
▲FEEDERS	0.2 HEAD	$ 92.75/HEAD		14.27	0.14	0.01
8 ▲BREEDING STOCK	7.7 HEAD	$204.15/HEAD		1578.27	15.75	1.09
GOVERNMENT SUPPORT PAYMENTS				96.88	0.97	0.07
INV.CHANGE(SOW,GIL,FDRS,WNR				7407.75	73.91	5.13
OTHER RECEIPTS				52.27	0.52	0.04
A.GROSS INCOME				68921.84	687.63	47.72
FEED COSTS:						
BARLEY	85.1 TONNES	$103.05/TONNE		8772.62	87.52	6.07
OTHER GRAINS	33.7 TONNES	$104.07/TONNE		3505.51	34.97	2.43
14 %/% DRY SOW RATION	5.2 TONNES	$182.19/TONNE		949.20	9.47	0.66
27 %/% NURSING SOW RATN	23.8 TONNES	$263.28/TONNE		6261.60	62.47	4.34
20 %/% PRE-STARTER RATN	1.4 TONNES	$391.79/TONNE		545.04	5.44	0.38
18 %/% STARTER RATION	22.0 TONNES	$307.97/TONNE		6770.69	67.55	4.69
16 %/% GROWER RATION	1.5 TONNES	$190.25/TONNE		290.13	2.89	0.20
%/% FINISHER RATION	TONNES	$ /TONNE				
40 %/% PROTEIN SUPPLMNT	0.5 TONNES	$416.06/TONNE		219.15	2.19	0.15
35 %/% PROTEIN SUPPLMNT	0.2 TONNES	$765.99/TONNE		130.81	1.31	0.09
47 %/% RAPESEED MEAL	0.5 TONNES	$209.79/TONNE		115.38	1.15	0.08
47 %/% SOYABEAN MEAL	8.3 TONNES	$344.61/TONNE		2853.27	28.47	1.98
VIT.+MINERALS+SALT+LIMESTNE	3.4 TONNES	$ /TONNE		1594.47	15.91	1.10
FEED PROCESSING	1.5 TONNES	$ /TONNE		30.27	0.30	0.02
FEED TRUCKING COSTS	TONNES	$110.12/TONNE		110.12	1.10	0.08
OTHER FEED ITEMS	1.4 TONNES	$ /TONNE		124.21	1.24	0.09
TOTAL FEED COSTS				32272.47	321.98	22.34
OTHER CASH COSTS:						
WEANERS	HEAD	$ 40.00/HEAD		1.54	0.02	
FEEDERS	HEAD	$ /HEAD				
GILTS	0.7 HEAD	$256.39/HEAD		177.50	1.77	0.12
BOARS	2.0 HEAD	$367.96/HEAD		721.77	7.20	0.50
BEDDING	16.7 TONNES	$ 26.77/TONNE		448.30	4.47	0.31
VET.+MED.,CHEM.+DISINFECT.				1601.00	15.97	1.11
MANURE DISPOSAL (IF HIRED)				86.35	0.86	0.06
HIRED LABOUR	639.9 HOURS	$ 5.61/HOUR		3592.86	35.85	2.49
HOG TRUCKING COSTS				44.39	0.44	0.03
MARKETING & ASSEMBLY CHARG.				235.05	2.35	0.16
TAXES,INSURANCES & UTILIT.				4634.99	46.24	3.21
MACH.BLDG.EQP. OPERTNG.+REP				3696.75	36.88	2.56
ACCTNG,PROF.DUES + MISC.				373.48	3.73	0.26
INTEREST-OPR.LOAN(LVSTK,FEED ETC.(15.5+/-)				1820.75	18.17	1.26
PAID INTEREST-CAPITAL LOANS				9244.81	92.24	6.40
OTHER CASH COSTS				26679.54	266.18	18.47
▲▲▲TOTAL CASH COSTS▲▲▲				58952.01	588.16	40.81
NON-CASH COSTS:						
OPERATOR'S LABOUR	1828.0 HOURS	$ 6.85/HOUR		12521.54	124.93	8.67
FAMILY LABOUR	487.1 HOURS	$ 3.99/HOUR		1944.35	19.40	1.35
DEPRECIATION (BLDG.+EQUIP.)				7325.47	73.09	5.07
▲▲▲TOTAL NON-CASH COSTS▲▲▲				21791.36	217.41	15.09
B.TOTAL PRODUCTION COSTS				80743.36	805.57	55.90
C.RETURN TO EQUITY (A-B)				-11821.53	-117.94	-8.18

HEAD HANDLED	1287.2	DEATHLOSS o/o	2.0	CWT.LIVE WGHT.	557.2		
WEAN.SOLD/SOW	10.2	AV.WEANER WT.	41.7	NO.WEAN.EQUIV.	1444.4	LBS.FEED/SOW	4132.9
LBS.FD/WEAN.EQ	286.8	HOME FEED o/o	53.0	HOG RECPT.o/o	85.d	SOWS	100.2
SOWS/BOAR	19.4	REPLACE GILTS	20.0	PGLTS WND/SOW	15.4	WNG AGE(DAYS)	32.5

GRS.MARGIN/WNR	6.9	NET INCOME/WNR	1.8	EQUITY INT.o/o	-16.0	INVEST.INT.o/o	-1.8

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA TYPE OF ENTERPRISE: FARROW-WEAN FOR: REGION 1				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
12 ▲MARKET HOGS	20.9	CWT DRS	$ 74.83/CWT	1564.20	30.31	2.00
10 SOWS	30.2	CWT DRS	$ 65.92/CWT	1992.00	38.60	2.55
1 BOARS	1.8	CWT DRS	$ 46.98/CWT	82.80	1.60	0.11
648 ▲WEANERS	648.4	HEAD	$ 44.79/HEAD	29042.40	562.84	37.19
1 ▲FEEDERS	0.6	HEAD	$103.33/HEAD	62.00	1.20	0.08
▲BREEDING STOCK		HEAD	$ /HEAD			
GOVERNMENT SUPPORT PAYMENTS				307.40	5.96	0.39
INV.CHANGE(SOW,GIL,FDRS,WNR				2777.26	53.82	3.56
OTHER RECEIPTS				215.14	4.17	0.28
A.GROSS INCOME==========				36043.21	698.51	46.16
FEED COSTS:						
BARLEY	30.5	TONNES	$101.11/TONNE	3081.67	59.72	3.95
OTHER GRAINS	5.7	TONNES	$136.15/TONNE	782.06	15.16	1.00
14 */* DRY SOW RATION	5.2	TONNES	$170.33/TONNE	877.56	17.01	1.12
21 */* NURSING SOW RATN	28.6	TONNES	$191.49/TONNE	5475.94	106.12	7.01
/ PRE-STARTER RATN		TONNES	$ /TONNE			
18 */* STARTER RATION	14.1	TONNES	$306.39/TONNE	4307.30	83.47	5.52
/ GROWER RATION		TONNES	$ /TONNE			
/ FINISHER RATION		TONNES	$ /TONNE			
/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
/ RAPESEED MEAL		TONNES	$ /TONNE			
45 */* SOYABEAN MEAL	2.2	TONNES	$411.02/TONNE	895.20	17.35	1.15
VIT.+MINERALS+SALT+LIMESTNE	0.5	TONNES	$ /TONNE	190.40	3.69	0.24
FEED PROCESSING		TONNES	$ /TONNE			
FEED TRUCKING COSTS		TONNES	$ 73.20/TONNE	73.20	1.42	0.09
OTHER FEED ITEMS		TONNES	$ /TONNE			
TOTAL FEED COSTS----------				15683.33	303.94	20.08
OTHER CASH COSTS:						
WEANERS		HEAD	$ /HEAD			
FEEDERS		HEAD	$ /HEAD			
GILTS		HEAD	$ /HEAD			
BOARS	1.6	HEAD	$226.25/HEAD	362.00	7.02	0.46
BEDDING	6.4	TONNES	$ 24.20/TONNE	155.91	3.02	0.20
VET.+MED.,CHEM.+DISINFECT.				669.20	12.97	0.86
MANURE DISPOSAL (IF HIRED)				237.00	4.59	0.30
HIRED LABOUR		HOURS	$ /HOUR			
HOG TRUCKING COSTS				41.60	0.81	0.05
MARKETING « ASSEMBLY CHARG.				83.00	1.61	0.11
TAXES,INSURANCES « UTILIT.				2264.00	43.88	2.90
MACH.BLDG.EQP. OPERTNG.+REP				2840.25	55.04	3.64
ACCTNG,PROF.DUES + MISC.				337.80	6.55	0.43
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5*/*)				864.59	16.76	1.11
PAID INTEREST-CAPITAL LOANS				3178.47	61.60	4.07
OTHER CASH COSTS----------				11033.82	213.83	14.13
▲▲▲TOTAL CASH COSTS▲▲▲				26717.15	517.77	34.21
NON-CASH COSTS:						
OPERATOR'S LABOUR	1599.0	HOURS	$ 6.85/HOUR	10953.15	212.27	14.03
FAMILY LABOUR	313.0	HOURS	$ 3.43/HOUR	1073.59	20.81	1.37
DEPRECIATION (BLDG.+EQUIP.)				5450.00	105.62	6.98
▲▲▲TOTAL NON-CASH COSTS▲▲▲				17476.74	338.70	22.38
B.TOTAL PRODUCTION COSTS==========				44193.89	856.47	56.59
C.RETURN TO EQUITY (A-B)				-8150.68	-157.96	-10.44

HEAD HANDLED	802.6	DEATHLOSS o/o	2.7	CWT.LIVE WGHT.	304.2			
WEAN.SOLD/SOW	12.6	AV.WEANER WT.	39.6	NO.WEAN.EQUIV.	780.9	LBS.FEED/SOW	3702.5	
LBS.FD/WEAN.EQ	244.7	HOME FEED o/o	29.7	HOG RECPT.o/o	56.0	SOWS	51.6	
SOWS/BOAR	15.2	REPLACE GILTS	13.0	PGLTS WND/SOW	14.9	WNG AGE(DAYS)	29.6	

GRS.MARGIN/WNR	11.9	NET INCOME/WNR	5.0	EQUITY INT.o/o	-11.7	INVEST.INT.o/o	-5.5	

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: REGION 2

				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
45	▲MARKET HOGS	72.8 CWT DRS	$ 83.86/CWT	6101.71	81.67	5.49
13	SOWS	40.2 CWT DRS	$ 61.56/CWT	2475.57	33.13	2.23
1	BOARS	4.4 CWT DRS	$ 35.98/CWT	159.00	2.13	0.14
850	▲WEANERS	849.9 HEAD	$ 52.48/HEAD	44600.57	596.95	40.10
	▲FEEDERS	0.1 HEAD	$ 61.00/HEAD	8.71	0.12	0.01
	▲BREEDING STOCK	0.4 HEAD	$282.67/HEAD	121.14	1.62	0.11
GOVERNMENT SUPPORT PAYMENTS				91.29	1.22	0.08
INV.CHANGE(SOW,GIL,FDRS,WNR				6711.72	89.83	6.03
OTHER RECEIPTS						
A.GROSS INCOME				60269.72	806.67	54.19
FEED COSTS:						
BARLEY		103.6 TONNES	$102.41/TONNE	10612.52	142.04	9.54
OTHER GRAINS		5.3 TONNES	$111.53/TONNE	595.88	7.98	0.54
	/ DRY SOW RATION	TONNES	$ /TONNE			
37	*/* NURSING SOW RATN	8.3 TONNES	$365.30/TONNE	3021.57	40.44	2.72
20	*/* PRE-STARTER RATN	1.7 TONNES	$394.09/TONNE	676.71	9.06	0.61
18	*/* STARTER RATION	22.6 TONNES	$321.86/TONNE	7265.71	97.25	6.53
16	*/* GROWER RATION	1.6 TONNES	$176.16/TONNE	274.05	3.67	0.25
	/ FINISHER RATION	TONNES	$ /TONNE			
40	*/* PROTEIN SUPPLMNT	0.5 TONNES	$428.19/TONNE	206.14	2.76	0.19
	/ PROTEIN SUPPLMNT	TONNES	$ /TONNE			
	/ RAPESEED MEAL	TONNES	$ /TONNE			
48	*/* SOYABEAN MEAL	0.5 TONNES	$262.86/TONNE	131.43	1.76	0.12
VIT.+MINERALS+SALT+LIMESTNE		0.7 TONNES	$ /TONNE	290.50	3.89	0.26
FEED PROCESSING		TONNES	$ /TONNE			
FEED TRUCKING COSTS		TONNES	$ /TONNE			
OTHER FEED ITEMS		3.4 TONNES	$ /TONNE	178.63	2.39	0.16
TOTAL FEED COSTS				23253.15	311.23	20.91
OTHER CASH COSTS:						
WEANERS		0.1 HEAD	$ 40.00/HEAD	5.71	0.08	0.01
FEEDERS		HEAD	$ /HEAD			
GILTS		HEAD	$ /HEAD			
BOARS		1.9 HEAD	$482.69/HEAD	896.43	12.00	0.81
BEDDING		17.3 TONNES	$ 26.91/TONNE	466.43	6.24	0.42
VET.+MED.,CHEM.+DISINFECT.				1583.57	21.20	1.42
MANURE DISPOSAL (IF HIRED)						
HIRED LABOUR		HOURS	$ /HOUR			
HOG TRUCKING COSTS				84.58	1.13	0.08
MARKETING & ASSEMBLY CHARG.				247.45	3.31	0.22
TAXES,INSURANCES & UTILIT.				4066.01	54.42	3.66
MACH.BLDG.EQP. OPERTNG.+REP				4447.57	59.53	4.00
ACCTNG,PROF.DUES + MISC.				375.14	5.02	0.34
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5*/*)				1338.02	17.91	1.20
PAID INTEREST-CAPITAL LOANS				5125.11	68.60	4.61
OTHER CASH COSTS				18636.04	249.43	16.76
▲▲▲TOTAL CASH COSTS▲▲▲				41889.19	560.66	37.66
NON-CASH COSTS:						
OPERATOR'S LABOUR		1624.4 HOURS	$ 6.85/HOUR	11127.09	148.93	10.00
FAMILY LABOUR		733.2 HOURS	$ 4.82/HOUR	3531.68	47.27	3.18
DEPRECIATION (BLDG.+EQUIP.)				5152.69	68.97	4.63
▲▲▲TOTAL NON-CASH COSTS▲▲▲				19811.47	265.16	17.81
B.TOTAL PRODUCTION COSTS				61700.65	825.82	55.47
C.RETURN TO EQUITY (A-B)				-1430.94	-19.15	-1.29

HEAD HANDLED	1015.1	DEATHLOSS o/o	1.3	CWT.LIVE WGHT.	475.5		
WEAN.SOLD/SOW	11.4	AV.WEANER WT.	43.4	NO.WEAN.EQUIV.	1112.2	LBS.FEED/SOW	4408.6
LBS.FD/WEAN.EQ	296.1	HOME FEED o/o	72.4	HOG RECPT.o/o	88.8	SOWS	74.7
SOWS/BOAR	16.3	REPLACE GILTS	12.0	PGLTS WND/SOW	15.6	WNG AGE(DAYS)	32.6
GRS.MARGIN/WNR	16.5	NET INCOME/WNR	11.9	EQUITY INT.o/o	-2.9	INVEST.INT.o/o	3.9

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: REGION 3

					TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:							
18	▲MARKET HOGS	31.1	CWT DRS	$ 74.02/CWT	2298.50	11.73	1.03
41	SOWS	118.7	CWT DRS	$ 64.27/CWT	7632.00	38.94	3.41
3	BOARS	8.8	CWT DRS	$ 75.99/CWT	668.75	3.41	0.30
1251	▲WEANERS	1250.8	HEAD	$ 50.69/HEAD	63400.83	323.47	28.37
	▲FEEDERS		HEAD	$ /HEAD			
12	▲BREEDING STOCK	12.0	HEAD	$212.23/HEAD	2546.75	12.99	1.14
GOVERNMENT SUPPORT PAYMENTS							
INV.CHANGE(SOW,GIL,FDRS,WNR					13862.94	70.73	6.20
OTHER RECEIPTS					70.85	0.36	0.03
A.GROSS INCOME					90480.63	461.64	40.48
FEED COSTS:							
BARLEY		10.6	TONNES	$104.72/TONNE	1110.56	5.67	0.50
OTHER GRAINS		93.6	TONNES	$100.24/TONNE	9382.74	47.87	4.20
	•/• DRY SOW RATION		TONNES	$ /TONNE			
28	•/• NURSING SOW RATN	86.3	TONNES	$290.08/TONNE	25021.50	127.66	11.20
	•/• PRE-STARTER RATN		TONNES	$ /TONNE			
18	•/• STARTER RATION	60.7	TONNES	$290.21/TONNE	17623.25	89.91	7.89
	•/• GROWER RATION		TONNES	$ /TONNE			
	•/• FINISHER RATION		TONNES	$ /TONNE			
40	•/• PROTEIN SUPPLMNT	0.3	TONNES	$429.68/TONNE	333.00	1.70	0.15
40	•/• PROTEIN SUPPLMNT	0.4	TONNES	$414.00/TONNE	155.25	0.79	0.07
	•/• RAPESEED MEAL		TONNES	$ /TONNE			
45	•/• SOYABEAN MEAL	8.0	TONNES	$280.00/TONNE	2240.00	11.43	1.00
VIT.+MINERALS+SALT+LIMESTNE		4.2	TONNES	$ /TONNE	1370.75	6.99	0.61
FEED PROCESSING			TONNES	$ /TONNE			
FEED TRUCKING COSTS			TONNES	$ /TONNE			
OTHER FEED ITEMS			TONNES	$ /TONNE			
	TOTAL FEED COSTS				57237.05	292.03	25.61
OTHER CASH COSTS:							
WEANERS			HEAD	$ /HEAD			
FEEDERS			HEAD	$ /HEAD			
GILTS		2.5	HEAD	$271.50/HEAD	678.75	3.46	0.30
BOARS		5.5	HEAD	$356.86/HEAD	1962.75	10.01	0.88
BEDDING		6.5	TONNES	$ 26.23/TONNE	171.83	0.88	0.08
VET.+MED.,CHEM.+DISINFECT.					1743.50	8.90	0.78
MANURE DISPOSAL (IF HIRED)							
HIRED LABOUR		2454.5	HOURS	$ 5.25/HOUR	12886.13	65.75	5.77
HOG TRUCKING COSTS					12.75	0.07	0.01
MARKETING « ASSEMBLY CHARG.					128.75	0.66	0.06
TAXES,INSURANCES « UTILIT.					9854.00	50.28	4.41
MACH.BLDG.EQP. OPERTNG.+REP					3706.26	18.91	1.66
ACCTNG,PROF.DUES + MISC.					20.88	0.11	0.01
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5•/•)					3323.24	16.96	1.49
PAID INTEREST-CAPITAL LOANS					24562.81	125.32	10.99
	OTHER CASH COSTS				59051.65	301.28	26.42
	▲▲▲TOTAL CASH COSTS▲▲▲				116288.70	593.31	52.03
NON-CASH COSTS:							
OPERATOR'S LABOUR		2184.3	HOURS	$ 6.85/HOUR	14962.11	76.34	6.69
FAMILY LABOUR		661.3	HOURS	$ 3.43/HOUR	2268.09	11.57	1.01
DEPRECIATION (BLDG.+EQUIP.)					11420.48	58.27	5.11
	▲▲▲TOTAL NON-CASH COSTS▲▲▲				28650.68	146.18	12.82
B.TOTAL PRODUCTION COSTS					144939.38	739.49	64.85
C.RETURN TO EQUITY (A-B)					-54458.75	-277.85	-24.37

HEAD HANDLED	1633.8	DEATHLOSS o/o	1.7	CWT.LIVE WGHT.	630.8		
WEAN.SOLD/SOW	6.4	AV.WEANER WT.	35.6	NO.WEAN.EQUIV.	2235.0	LBS.FEED/SOW	2976.9
LBS.FD/WEAN.EQ	261.1	HOME FEED o/o	84.1	HOG RECPT.o/o	94.9	SOWS	196.0
SOWS/BOAR	26.1	REPLACE GILTS	17.3	PGLTS WND/SOW	14.6	WNG AGE(DAYS)	30.5

GRS.MARGIN/WNR	-11.5	NET INCOME/WNR	-16.7	EQUITY INT.o/o	-56.2	INVEST.INT.o/o	-11.3

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA TYPE OF ENTERPRISE: FARROW-WEAN FOR: REGION 4				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
58 ▲MARKET HOGS	95.6	CWT DRS	$ 85.04/CWT	8127.70	78.08	4.80
23 SOWS	75.1	CWT DRS	$ 62.76/CWT	4715.00	45.29	2.79
2 BOARS	5.8	CWT DRS	$ 50.45/CWT	292.30	2.81	0.17
1244 ▲WEANERS	1244.0	HEAD	$ 47.42/HEAD	58996.67	566.73	34.86
▲FEEDERS		HEAD	$ /HEAD			
15 ▲BREEDING STOCK	15.0	HEAD	$200.00/HEAD	3000.00	28.82	1.77
GOVERNMENT SUPPORT PAYMENTS				34.30	0.33	0.02
INV.CHANGE(SOW,GIL,FDRS,WNR				7628.15	73.28	4.51
OTHER RECEIPTS						
A.GROSS INCOME				82794.12	795.33	48.92
FEED COSTS:						
BARLEY	129.3	TONNES	$103.57/TONNE	13394.99	128.67	7.91
OTHER GRAINS	43.5	TONNES	$104.61/TONNE	4553.08	43.74	2.69
14 •/• DRY SOW RATION	11.0	TONNES	$184.97/TONNE	2029.15	19.49	1.20
26 •/• NURSING SOW RATN	7.2	TONNES	$195.79/TONNE	1418.50	13.63	0.84
20 •/• PRE-STARTER RATN	2.4	TONNES	$390.64/TONNE	943.40	9.06	0.56
18 •/• STARTER RATION	10.0	TONNES	$330.20/TONNE	3314.85	31.84	1.96
16 •/• GROWER RATION	2.9	TONNES	$195.58/TONNE	562.50	5.40	0.33
•/• FINISHER RATION		TONNES	$ /TONNE			
40 •/• PROTEIN SUPPLMNT	0.7	TONNES	$404.57/TONNE	292.30	2.81	0.17
30 •/• PROTEIN SUPPLMNT	0.3	TONNES	$945.58/TONNE	278.00	2.67	0.16
47 •/• RAPESEED MEAL	1.4	TONNES	$209.79/TONNE	300.00	2.88	0.18
47 •/• SOYABEAN MEAL	16.9	TONNES	$354.27/TONNE	5982.90	57.47	3.54
VIT.+MINERALS+SALT+LIMESTNE	6.4	TONNES	$ /TONNE	3298.76	31.69	1.95
FEED PROCESSING	3.9	TONNES	$ /TONNE	78.70	0.76	0.05
FEED TRUCKING COSTS		TONNES	$249.70/TONNE	249.70	2.40	0.15
OTHER FEED ITEMS	1.3	TONNES	$ /TONNE	197.90	1.90	0.12
TOTAL FEED COSTS				36894.73	354.42	21.80
OTHER CASH COSTS:						
WEANERS		HEAD	$ /HEAD			
FEEDERS		HEAD	$ /HEAD			
GILTS	0.8	HEAD	$237.50/HEAD	190.00	1.83	0.11
BOARS	0.8	HEAD	$353.75/HEAD	283.00	2.72	0.17
BEDDING	25.6	TONNES	$ 27.08/TONNE	692.39	6.65	0.41
VET.+MED.,CHEM.+DISINFECT.				2022.09	19.42	1.19
MANURE DISPOSAL (IF HIRED)				106.00	1.02	0.06
HIRED LABOUR	682.0	HOURS	$ 6.14/HOUR	4187.00	40.22	2.47
HOG TRUCKING COSTS				30.30	0.29	0.02
MARKETING « ASSEMBLY CHARG.				344.90	3.31	0.20
TAXES,INSURANCES « UTILIT.				4131.17	39.68	2.44
MACH.BLDG.EQP. OPERTNG.+REP				3595.62	34.54	2.12
ACCTNG,PROF.DUES + MISC.				531.20	5.10	0.31
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5•/•)				2035.75	19.56	1.20
PAID INTEREST-CAPITAL LOANS				9034.58	86.79	5.34
OTHER CASH COSTS				27184.00	261.13	16.06
▲▲▲TOTAL CASH COSTS▲▲▲				64078.73	615.55	37.86
NON-CASH COSTS:						
OPERATOR'S LABOUR	1942.4	HOURS	$ 6.85/HOUR	13305.61	127.82	7.86
FAMILY LABOUR	332.1	HOURS	$ 3.43/HOUR	1139.10	10.94	0.67
DEPRECIATION (BLDG.+EQUIP.)				8146.15	78.25	4.81
▲▲▲TOTAL NON-CASH COSTS▲▲▲				22590.87	217.01	13.35
B.TOTAL PRODUCTION COSTS				86669.59	832.56	51.21
C.RETURN TO EQUITY (A-B)				-3875.47	-37.23	-2.29

HEAD HANDLED	1581.3	DEATHLOSS o/o	2.3	CWT.LIVE WGHT.	711.5			
WEAN.SOLD/SOW	12.0	AV.WEANER WT.	44.0	NO.WEAN.EQUIV.	1692.5	LBS.FEED/SOW		4971.7
LBS.FD/WEAN.EQ	305.8	HOME FEED o/o	38.5	HOG RECPT.o/o	88.3		SOWS	104.1
SOWS/BOAR	18.9	REPLACE GILTS	30.1	PGLTS WND/SOW	15.9	WNG AGE(DAYS)		34.7

GRS.MARGIN/WNR	11.1	NET INCOME/WNR	6.2	EQUITY INT.o/o	-4.6	INVEST.INT.o/o		3.3

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: <100 HEADS

					TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:							
19	▲MARKET HOGS	34.6	CWT DRS	$ 80.42/CWT	2781.33	181.39	12.85
3	SOWS	9.3	CWT DRS	$ 85.35/CWT	790.33	51.54	3.65
	BOARS		CWT DRS	$ /CWT			
67	▲WEANERS	66.7	HEAD	$ 63.16/HEAD	4210.90	274.62	19.46
	▲FEEDERS		HEAD	$ /HEAD			
	▲BREEDING STOCK		HEAD	$ /HEAD			
GOVERNMENT SUPPORT PAYMENTS					213.00	13.89	0.98
INV.CHANGE(SOW,GIL,FDRS,WNR					3669.42	239.31	16.96
OTHER RECEIPTS							
A.GROSS INCOME					11664.98	760.76	53.90
FEED COSTS:							
BARLEY		12.1	TONNES	$102.87/TONNE	1247.14	81.33	5.76
OTHER GRAINS		1.4	TONNES	$126.95/TONNE	173.92	11.34	0.80
	•/• DRY SOW RATION		TONNES	$ /TONNE			
	•/• NURSING SOW RATN		TONNES	$ /TONNE			
	•/• PRE-STARTER RATN		TONNES	$975.00/TONNE	39.00	2.54	0.18
18	•/• STARTER RATION	1.4	TONNES	$341.80/TONNE	489.92	31.95	2.26
	•/• GROWER RATION		TONNES	$ /TONNE			
	•/• FINISHER RATION		TONNES	$ /TONNE			
40	•/• PROTEIN SUPPLMNT	0.7	TONNES	$420.28/TONNE	297.00	19.37	1.37
	•/• PROTEIN SUPPLMNT		TONNES	$ /TONNE			
	•/• RAPESEED MEAL		TONNES	$ /TONNE			
47	•/• SOYABEAN MEAL	2.2	TONNES	$358.00/TONNE	775.67	50.59	3.58
VIT.+MINERALS+SALT+LIMESTNE		0.4	TONNES	$ /TONNE	74.53	4.86	0.34
FEED PROCESSING			TONNES	$ /TONNE			
FEED TRUCKING COSTS			TONNES	$ /TONNE			
OTHER FEED ITEMS			TONNES	$ /TONNE	19.33	1.26	0.09
TOTAL FEED COSTS					3116.51	203.25	14.40
OTHER CASH COSTS:							
WEANERS		0.3	HEAD	$ 40.00/HEAD	13.33	0.87	0.06
FEEDERS			HEAD	$ /HEAD			
GILTS			HEAD	$ /HEAD			
BOARS		0.3	HEAD	$175.00/HEAD	58.33	3.80	0.27
BEDDING		9.5	TONNES	$ 34.62/TONNE	330.00	21.52	1.52
VET.+MED.,CHEM.+DISINFECT.					212.07	13.83	0.98
MANURE DISPOSAL (IF HIRED)							
HIRED LABOUR			HOURS	$ /HOUR			
HOG TRUCKING COSTS					20.33	1.33	0.09
MARKETING « ASSEMBLY CHARG.					212.67	13.87	0.98
TAXES,INSURANCES « UTILIT.					594.73	38.79	2.75
MACH.BLDG.EQP. OPERTNG.+REP					3601.78	234.90	16.64
ACCTNG,PROF.DUES + MISC.					114.00	7.43	0.53
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5•/•)					318.35	20.76	1.47
PAID INTEREST-CAPITAL LOANS					64.62	4.21	0.30
OTHER CASH COSTS					5540.20	361.32	25.60
▲▲▲TOTAL CASH COSTS▲▲▲					8656.71	564.57	40.00
NON-CASH COSTS:							
OPERATOR'S LABOUR		1324.8	HOURS	$ 6.85/HOUR	9075.11	591.85	41.94
FAMILY LABOUR		944.3	HOURS	$ 3.43/HOUR	3239.04	211.24	14.97
DEPRECIATION (BLDG.+EQUIP.)					2900.36	189.15	13.40
▲▲▲TOTAL NON-CASH COSTS▲▲▲					15214.53	992.25	70.31
B.TOTAL PRODUCTION COSTS					23871.24	1556.82	110.31
C.RETURN TO EQUITY (A-B)					⁻12206.26	⁻796.06	⁻56.41

HEAD HANDLED	164.7	DEATHLOSS o/o	1.0	CWT.LIVE WGHT.	109.5		
WEAN.SOLD/SOW	4.3	AV.WEANER WT.	55.7	NO.WEAN.EQUIV.	216.4	LBS.FEED/SOW	2627.6
LBS.FD/WEAN.EQ	186.2	HOME FEED o/o	59.9	HOG RECPT.o/o	40.3	SOWS	15.3
SOWS/BOAR	11.5	REPLACE GILTS	14.7	PGLTS WND/SOW	8.6	WNG AGE(DAYS)	38.7

GRS.MARGIN/WNR	13.9	NET INCOME/WNR	0.5	EQUITY INT.o/o	⁻36.0	INVEST.INT.o/o	⁻35.2

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: 100-199 HEAD

				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
17 ▲MARKET HOGS	31.1	CWT DRS	$ 79.32/CWT	2467.50	92.24	8.31
12 SOWS	43.8	CWT DRS	$ 62.36/CWT	2730.75	102.08	9.19
2 BOARS	5.8	CWT DRS	$ 46.75/CWT	271.75	10.16	0.91
118 ▲WEANERS	118.3	HEAD	$ 51.63/HEAD	6105.83	228.26	20.55
▲FEEDERS		HEAD	$ /HEAD			
▲BREEDING STOCK		HEAD	$ /HEAD			
GOVERNMENT SUPPORT PAYMENTS				85.75	3.21	0.29
INV.CHANGE(SOW,GIL,FDRS,WNR				4423.33	165.36	14.89
OTHER RECEIPTS				70.85	2.65	0.24
A.GROSS INCOME				16155.76	603.95	54.38
FEED COSTS:						
BARLEY	11.1	TONNES	$104.63/TONNE	1166.63	43.61	3.93
OTHER GRAINS	8.3	TONNES	$101.22/TONNE	840.10	31.41	2.83
/ DRY SOW RATION	9.4	TONNES	$201.03/TONNE	1894.75	70.83	6.38
16 */* NURSING SOW RATN	0.4	TONNES	$223.40/TONNE	87.13	3.26	0.29
/ PRE-STARTER RATN		TONNES	$ /TONNE			
19 */* STARTER RATION	1.7	TONNES	$374.74/TONNE	619.25	23.15	2.08
16 */* GROWER RATION	7.2	TONNES	$195.58/TONNE	1406.25	52.57	4.73
/ FINISHER RATION		TONNES	$ /TONNE			
40 */* PROTEIN SUPPLMNT	0.8	TONNES	$429.68/TONNE	333.00	12.45	1.12
40 */* PROTEIN SUPPLMNT	0.4	TONNES	$414.00/TONNE	155.25	5.80	0.52
/ RAPESEED MEAL		TONNES	$ /TONNE			
/ SOYABEAN MEAL		TONNES	$ /TONNE			
VIT.+MINERALS+SALT+LIMESTNE	0.3	TONNES	$ /TONNE	181.25	6.78	0.61
FEED PROCESSING		TONNES	$ /TONNE			
FEED TRUCKING COSTS		TONNES	$397.50/TONNE	397.50	14.86	1.34
OTHER FEED ITEMS		TONNES	$ /TONNE	8.25	0.31	0.03
TOTAL FEED COSTS				7089.36	265.02	23.86
OTHER CASH COSTS:						
WEANERS		HEAD	$ /HEAD			
FEEDERS		HEAD	$ /HEAD			
GILTS		HEAD	$ /HEAD			
BOARS	1.8	HEAD	$276.57/HEAD	484.00	18.09	1.63
BEDDING	11.7	TONNES	$ 25.47/TONNE	296.83	11.10	1.00
VET.+MED.,CHEM.+DISINFECT.				244.00	9.12	0.82
MANURE DISPOSAL (IF HIRED)						
HIRED LABOUR		HOURS	$ /HOUR			
HOG TRUCKING COSTS				47.50	1.78	0.16
MARKETING & ASSEMBLY CHARG.				285.25	10.66	0.96
TAXES,INSURANCES & UTILIT.				1361.25	50.89	4.58
MACH.BLDG.EQP. OPERTNG.+REP				2272.69	84.96	7.65
ACCTNG,PROF.DUES + MISC.				103.38	3.86	0.35
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5*/*)				453.38	16.95	1.53
PAID INTEREST-CAPITAL LOANS				2602.32	97.28	8.76
OTHER CASH COSTS				8150.59	304.70	27.44
▲▲▲TOTAL CASH COSTS▲▲▲				15239.95	569.72	51.30
NON-CASH COSTS:						
OPERATOR'S LABOUR	1267.8	HOURS	$ 6.85/HOUR	8684.09	324.64	29.23
FAMILY LABOUR	30.8	HOURS	$ 3.43/HOUR	105.47	3.94	0.36
DEPRECIATION (BLDG.+EQUIP.)				2934.84	109.71	9.88
▲▲▲TOTAL NON-CASH COSTS▲▲▲				11724.40	438.30	39.47
B.TOTAL PRODUCTION COSTS				26964.36	1008.01	90.76
C.RETURN TO EQUITY (A-B)				-10808.59	-404.06	-36.38

HEAD HANDLED	192.5	DEATHLOSS o/o	7.5	CWT.LIVE WGHT.	119.9			
WEAN.SOLD/SOW	4.4	AV.WEANER WT.	41.1	NO.WEAN.EQUIV.	297.1	LBS.FEED/SOW		3278.4
LBS.FD/WEAN.EQ	295.2	HOME FEED o/o	65.9	HOG RECPT.o/o	58.7	SOWS		26.8
SOWS/BOAR	15.3	REPLACE GILTS	18.0	PGLTS WND/SOW	12.3	WNG AGE(DAYS)		28.3
GRS.MARGIN/WNR	3.1	NET INCOME/WNR	-6.8	EQUITY ANT.o/o	-44.6	INVEST.INT.o/o		-19.4

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: 200-499 SIZE

					TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:							
	^MARKET HOGS		CWT DRS	$ /CWT			
1	SOWS	2.4	CWT DRS	$ 55.25/CWT	134.67	2.91	0.33
	BOARS	0.9	CWT DRS	$104.00/CWT	91.00	1.96	0.22
348	^WEANERS	347.7	HEAD	$ 47.80/HEAD	16617.00	358.64	41.04
	^FEEDERS	0.3	HEAD	$ 61.00/HEAD	20.33	0.44	0.05
1	^BREEDING STOCK	1.0	HEAD	$282.67/HEAD	282.67	6.10	0.70
GOVERNMENT SUPPORT PAYMENTS							
INV.CHANGE(SOW,OIL,FDRS,WNR					2048.74	44.22	5.06
OTHER RECEIPTS							
A.GROSS INCOME					19194.41	414.27	47.41
FEED COSTS:							
BARLEY		44.6	TONNES	$100.05/TONNE	4457.58	96.21	11.01
OTHER GRAINS			TONNES	$ /TONNE			
	/ DRY SOW RATION		TONNES	$ /TONNE			
	/ NURSING SOW RATN		TONNES	$ /TONNE			
20	*/* PRE-STARTER RATN	0.3	TONNES	$420.00/TONNE	140.00	3.02	0.35
18	*/* STARTER RATION	2.8	TONNES	$363.96/TONNE	1010.00	21.80	2.49
	/ GROWER RATION		TONNES	$ /TONNE			
	/ FINISHER RATION		TONNES	$ /TONNE			
40	*/* PROTEIN SUPPLMNT	1.7	TONNES	$406.20/TONNE	677.00	14.61	1.67
	/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
	/ RAPESEED MEAL		TONNES	$ /TONNE			
47	*/* SOYABEAN MEAL	3.3	TONNES	$326.05/TONNE	1074.00	23.18	2.65
VIT.+MINERALS+SALT+LIMESTNE		2.3	TONNES	$ /TONNE	1460.67	31.53	3.61
FEED PROCESSING		13.0	TONNES	$ /TONNE	262.33	5.66	0.65
FEED TRUCKING COSTS			TONNES	$ /TONNE			
OTHER FEED ITEMS			TONNES	$ /TONNE			
	TOTAL FEED COSTS				9081.58	196.01	22.43
OTHER CASH COSTS:							
WEANERS			HEAD	$ /HEAD			
FEEDERS			HEAD	$ /HEAD			
GILTS			HEAD	$ /HEAD			
BOARS		1.0	HEAD	$343.33/HEAD	343.33	7.41	0.85
BEDDING		10.6	TONNES	$ 30.71/TONNE	325.00	7.01	0.80
VET.+MED.,CHEM.+DISINFECT.					1271.85	27.45	3.14
MANURE DISPOSAL (IF HIRED)					133.33	2.88	0.33
HIRED LABOUR			HOURS	$ /HOUR			
HOG TRUCKING COSTS							
MARKETING & ASSEMBLY CHARG.					25.33	0.55	0.06
TAXES,INSURANCES & UTILIT.					1576.29	34.02	3.89
MACH.BLDG.EQP. OPERTNG.+REP					2005.61	43.29	4.95
ACCTNG,PROF.DUES + MISC.					209.33	4.52	0.52
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5*/*)					566.85	12.23	1.40
PAID INTEREST-CAPITAL LOANS							
	OTHER CASH COSTS				6456.93	139.36	15.95
	^^^TOTAL CASH COSTS^^^				15538.51	335.36	38.38
NON-CASH COSTS:							
OPERATOR'S LABOUR		1329.0	HOURS	$ 6.85/HOUR	9103.65	196.48	22.48
FAMILY LABOUR		31.7	HOURS	$ 3.43/HOUR	108.62	2.34	0.27
DEPRECIATION (BLDG.+EQUIP.)					4380.74	94.55	10.82
	^^^TOTAL NON-CASH COSTS^^^				13593.01	293.37	33.57
B.TOTAL PRODUCTION COSTS					29131.52	628.74	71.95
C.RETURN TO EQUITY (A-B)					"9937.11	"214.47	"24.54

HEAD HANDLED	391.3	DEATHLOSS o/o	2.3	CWT.LIVE WGHT.	168.3		
WEAN.SOLD/SOW	7.5	AV.WEANER WT.	41.7	NO.WEAN.EQUIV.	404.9	LBS.FEED/SOW	2610.6
LBS.FD/WEAN.EQ	298.7	HOME FEED o/o	54.5	HOG RECPT.o/o	47.0	SOWS	46.3
SOWS/BOAR	15.4	REPLACE GILTS	1.7	PGLTS WND/SOW	11.4	WND AGE(DAYS)	33.3
GRS.MARGIN/WNR	9.0	NET INCOME/WNR	"1.8	EQUITY INT.o/o	"29.8	INVEST.INT.o/o	"10.3

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA TYPE OF ENTERPRISE: FARROW-WEAN FOR: $00-999 SIZE				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
13 ^MARKET HOGS	21.1	CWT DRS	$ 72.76/CWT	1538.25	24.91	1.37
21 SOWS	65.2	CWT DRS	$ 58.19/CWT	3794.50	61.45	3.38
2 BOARS	5.8	CWT DRS	$ 48.92/CWT	283.00	4.58	0.25
668 ^WEANERS	668.0	HEAD	$ 48.39/HEAD	32323.75	523.46	28.76
^FEEDERS	0.4	HEAD	$103.33/HEAD	38.75	0.63	0.03
6 ^BREEDING STOCK	6.0	HEAD	$212.23/HEAD	1273.38	20.62	1.13
GOVERNMENT SUPPORT PAYMENTS				192.13	3.11	0.17
INV.CHANGE(SOW,GIL,FDRS,WNR				6573.06	106.45	5.85
OTHER RECEIPTS				134.47	2.18	0.12
A.GROSS INCOME----------				46151.28	747.39	41.06
FEED COSTS:						
BARLEY	33.6	TONNES	$102.28/TONNE	3440.08	55.71	3.06
OTHER GRAINS	50.7	TONNES	$102.28/TONNE	5182.89	83.93	4.61
14 */* DRY SOW RATION	9.0	TONNES	$176.56/TONNE	1589.06	25.73	1.41
29 */* NURSING SOW RATN	18.2	TONNES	$201.03/TONNE	3661.19	59.29	3.26
20 */* PRE-STARTER RATN	1.4	TONNES	$386.79/TONNE	534.25	8.65	0.48
18 */* STARTER RATION	14.3	TONNES	$321.50/TONNE	4595.59	74.42	4.09
/ GROWER RATION		TONNES	$ /TONNE			
/ FINISHER RATION		TONNES	$ /TONNE			
40 */* PROTEIN SUPPLMNT	0.4	TONNES	$415.54/TONNE	180.50	2.92	0.16
/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
/ RAPESEED MEAL		TONNES	$ /TONNE			
45 */* SOYABEAN MEAL	5.4	TONNES	$313.27/TONNE	1679.50	27.20	1.49
VIT.+MINERALS+SALT+LIMESTNE	2.6	TONNES	$ /TONNE	847.44	13.72	0.75
FEED PROCESSING		TONNES	$ /TONNE			
FEED TRUCKING COSTS		TONNES	$ 78.88/TONNE	78.88	1.28	0.07
OTHER FEED ITEMS	3.0	TONNES	$ /TONNE	149.05	2.41	0.13
TOTAL FEED COSTS----------				21938.42	355.28	19.52
OTHER CASH COSTS:						
WEANERS		HEAD	$ /HEAD			
FEEDERS		HEAD	$ /HEAD			
GILTS	2.0	HEAD	$244.69/HEAD	489.38	7.93	0.44
BOARS	1.3	HEAD	$323.50/HEAD	404.38	6.55	0.36
BEDDING	12.7	TONNES	$ 23.92/TONNE	303.10	4.91	0.27
VET.+MED.,CHEM.+DISINFECT.				1292.88	20.94	1.15
MANURE DISPOSAL (IF HIRED)				148.13	2.40	0.13
HIRED LABOUR		HOURS	$ /HOUR			
HOG TRUCKING COSTS				35.38	0.57	0.03
MARKETING & ASSEMBLY CHARG.				101.77	1.65	0.09
TAXES,INSURANCES & UTILIT.				2690.76	43.58	2.39
MACH.BLDG.EQP. OPERTNG.+REP				3318.87	53.75	2.95
ACCTNG,PROF.DUES + MISC.				306.50	4.96	0.27
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5*/*)				1167.76	18.91	1.04
PAID INTEREST-CAPITAL LOANS				4340.97	70.30	3.86
OTHER CASH COSTS----------				14599.87	236.44	12.99
^^^TOTAL CASH COSTS^^^				36538.30	591.71	32.51
NON-CASH COSTS:						
OPERATOR'S LABOUR	1308.3	HOURS	$ 6.85/HOUR	8961.73	145.13	7.97
FAMILY LABOUR	250.9	HOURS	$ 3.43/HOUR	860.75	13.94	0.77
DEPRECIATION (BLDG.+EQUIP.)				4810.85	77.91	4.28
^^^TOTAL NON-CASH COSTS^^^				14633.33	236.98	13.02
B.TOTAL PRODUCTION COSTS----------				51171.63	828.69	45.53
C.RETURN TO EQUITY (A-B)				-5020.35	-81.30	-4.47

HEAD HANDLED	877.8	DEATHLOSS o/o	2.4	CWT.LIVE WGHT.	350.0			
WEAN.SOLD/SOW	10.8	AV.WEANER WT.	37.3	NO.WEAN.EQUIV.	1124.0	LBS.FEED/SOW	4985.1	
LBS.FD/WEAN.EQ	273.9	HOME FEED o/o	49.7	HOG RECPT.o/o	65.0	SOWS	61.8	
SOWS/BOAR	15.4	REPLACE GILTS	17.8	PGLTS WND/SOW	13.0	WNG AGE(DAYS)	35.6	
ORS.MARGIN/WNR	8.6	NET INCOME/WNR	4.3	EQUITY INT.o/o	-8.5	INVEST.INT.o/o	-0.7	

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR:1000-1999 SIZE

					TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:							
111	▲MARKET HOGS	176.7	CWT DRS	$ 84.57/CWT	14944.67	140.55	7.14
22	SOWS	63.6	CWT DRS	$ 65.63/CWT	4172.67	39.24	1.99
3	BOARS	10.4	CWT DRS	$ 36.42/CWT	378.33	3.56	0.18
1454	▲WEANERS	1453.7	HEAD	$ 53.39/HEAD	77613.00	729.90	37.09
	▲FEEDERS		HEAD	$ /HEAD			
	▲BREEDING STOCK		HEAD	$ /HEAD			
GOVERNMENT SUPPORT PAYMENTS							
INV.CHANGE(SOW,GIL,FDRS,WNR					8528.07	80.20	4.08
OTHER RECEIPTS							
A.GROSS INCOME					105636.73	993.45	50.48
FEED COSTS:							
BARLEY		191.6	TONNES	$102.08/TONNE	19558.52	183.94	9.35
OTHER GRAINS		21.3	TONNES	$125.71/TONNE	2679.72	25.20	1.28
14	*/* DRY SOW RATION	8.6	TONNES	$170.33/TONNE	1462.60	13.75	0.70
26	*/* NURSING SOW RATN	32.1	TONNES	$226.07/TONNE	7254.57	68.22	3.47
	/ PRE-STARTER RATN		TONNES	$ /TONNE			
18	*/* STARTER RATION	38.7	TONNES	$291.51/TONNE	11274.50	106.03	5.39
16	*/* GROWER RATION	3.6	TONNES	$176.16/TONNE	639.45	6.01	0.31
	/ FINISHER RATION		TONNES	$ /TONNE			
	/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
	/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
47	*/* RAPESEED MEAL	4.8	TONNES	$209.79/TONNE	1000.00	9.40	0.48
	/ SOYABEAN MEAL		TONNES	$ /TONNE			
VIT.+MINERALS+SALT+LIMESTNE		1.3	TONNES	$ /TONNE	850.00	7.99	0.41
FEED PROCESSING			TONNES	$ /TONNE			
FEED TRUCKING COSTS			TONNES	$122.00/TONNE	122.00	1.15	0.06
OTHER FEED ITEMS			TONNES	$ /TONNE			
TOTAL FEED COSTS					44841.35	421.71	21.43
OTHER CASH COSTS:							
WEANERS			HEAD	$ /HEAD			
FEEDERS			HEAD	$ /HEAD			
GILTS			HEAD	$ /HEAD			
BOARS		3.3	HEAD	$424.00/HEAD	1413.33	13.29	0.68
BEDDING		13.9	TONNES	$ 27.55/TONNE	383.33	3.61	0.18
VET.+MED.,CHEM.+DISINFECT.					1487.00	13.98	0.71
MANURE DISPOSAL (IF HIRED)					220.00	2.07	0.11
HIRED LABOUR			HOURS	$ /HOUR			
HOG TRUCKING COSTS					159.47	1.50	0.08
MARKETING & ASSEMBLY CHARG.					438.33	4.12	0.21
TAXES,INSURANCES & UTILIT.					5306.67	49.91	2.54
MACH.BLDG.EQP. OPERTNG.+REP					4275.82	40.21	2.04
ACCTNG,PROF.DUES + MISC.					314.67	2.96	0.15
INTEREST-OPR.LOAN:LVSTK,FEED ETC.(15.5*/*)					2225.29	20.93	1.06
PAID INTEREST-CAPITAL LOANS					6220.37	58.50	2.97
OTHER CASH COSTS					22444.49	211.08	10.73
▲▲▲TOTAL CASH COSTS▲▲▲					67285.84	632.78	32.15
NON-CASH COSTS:							
OPERATOR'S LABOUR		3268.2	HOURS	$ 6.85/HOUR	22386.94	210.54	10.70
FAMILY LABOUR		1034.0	HOURS	$ 3.43/HOUR	3546.62	33.35	1.69
DEPRECIATION (BLDG.+EQUIP.)					8183.69	76.96	3.91
▲▲▲TOTAL NON-CASH COSTS▲▲▲					34117.25	320.85	16.30
B.TOTAL PRODUCTION COSTS					101403.09	953.63	48.46
C.RETURN TO EQUITY (A-B)					4233.65	39.81	2.02

HEAD HANDLED	1760.3	DEATHLOSS o/o	2.3	CWT.LIVE WGHT.	984.5		
WEAN.SOLD/SOW	13.7	AV.WEANER WT.	46.7	NO.WEAN.EQUIV.	2092.7	LBS.FEED/SOW	6258.8
LBS.FD/WEAN.EQ	318.0	HOME FEED o/o	51.4	HOG RECPT.o/o	94.6	SOWS	106.3
SOWS/BOAR	16.0	REPLACE GILTS	36.3	PGLTS WND/SOW	15.8	WND AGE(DAYS)	30.3

GRS.MARGIN/WNR	18.3	NET INCOME/WNR	14.4	EQUITY INT.o/o	3.6	INVEST.INT.o/o	7.1

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: 2000-3000 SIZE				TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:						
8 ▲MARKET HOGS	11.2 CWT DRS	$101.32/CWT		1133.33	5.64	0.42
25 SOWS	76.7 CWT DRS	$ 52.52/CWT		4026.67	20.03	1.50
2 BOARS	4.6 CWT DRS	$ 71.06/CWT		328.67	1.64	0.12
2398 ▲WEANERS	2398.3 HEAD	$ 44.72/HEAD		107250.00	533.58	39.92
▲FEEDERS	HEAD	$ /HEAD				
▲BREEDING STOCK	HEAD	$ /HEAD				
GOVERNMENT SUPPORT PAYMENTS						
INV.CHANGE(SOW,GIL,FDRS,WNR				10664.58	53.06	3.97
OTHER RECEIPTS						
A.GROSS INCOME				123403.25	613.95	45.93
FEED COSTS:						
BARLEY	239.9 TONNES	$101.71/TONNE		24397.12	121.38	9.08
OTHER GRAINS	39.0 TONNES	$ 97.18/TONNE		3786.43	18.84	1.41
/ DRY SOW RATION	TONNES	$ /TONNE				
40 */* NURSING SOW RATN	10.0 TONNES	$380.00/TONNE		3800.00	18.91	1.41
/ PRE-STARTER RATN	8.0 TONNES	$390.00/TONNE		3120.00	15.52	1.16
19 */* STARTER RATION	26.9 TONNES	$353.35/TONNE		9491.00	47.22	3.53
/ GROWER RATION	TONNES	$ /TONNE				
/ FINISHER RATION	TONNES	$ /TONNE				
/ PROTEIN SUPPLMNT	TONNES	$ /TONNE				
30 */* PROTEIN SUPPLMNT	1.0 TONNES	$945.58/TONNE		926.67	4.61	0.34
/ RAPESEED MEAL	TONNES	$ /TONNE				
47 */* SOYABEAN MEAL	20.0 TONNES	$360.00/TONNE		7200.00	35.82	2.68
VIT.+MINERALS+SALT+LIMESTNE	8.0 TONNES	$ /TONNE		6000.00	29.85	2.23
FEED PROCESSING	TONNES	$ /TONNE				
FEED TRUCKING COSTS	TONNES	$ 92.00/TONNE		92.00	0.46	0.03
OTHER FEED ITEMS	4.3 TONNES	$ /TONNE		648.67	3.23	0.24
TOTAL FEED COSTS				59461.88	295.83	22.13
OTHER CASH COSTS:						
WEANERS	HEAD	$ /HEAD				
FEEDERS	HEAD	$ /HEAD				
GILTS	0.7 HEAD	$350.00/HEAD		233.33	1.16	0.09
BOARS	1.7 HEAD	$430.00/HEAD		716.67	3.57	0.27
BEDDING	55.6 TONNES	$ 27.13/TONNE		1509.80	7.51	0.56
VET.+MED.,CHEM.+DISINFECT.				3656.00	18.19	1.36
MANURE DISPOSAL (IF HIRED)						
HIRED LABOUR	1031.0 HOURS	$ 5.28/HOUR		5446.67	27.10	2.03
HOG TRUCKING COSTS				47.00	0.23	0.02
MARKETING & ASSEMBLY CHARG.				136.00	0.68	0.05
TAXES,INSURANCES & UTILIT.				10664.00	53.06	3.97
MACH.BLDG.EQP. OPERTNG.+REP				6966.60	34.66	2.59
ACCTNG,PROF.DUES + MISC.				1627.00	8.09	0.61
INTEREST-OPR.LOAN!LVSTK,FEED ETC.(15.5*/*)				3468.78	17.26	1.29
PAID INTEREST-CAPITAL LOANS				26344.39	131.07	9.80
OTHER CASH COSTS				60818.24	302.58	22.64
▲▲▲TOTAL CASH COSTS▲▲▲				120280.12	598.41	44.77
NON-CASH COSTS:						
OPERATOR'S LABOUR	2667.5 HOURS	$ 6.85/HOUR		18272.38	90.91	6.80
FAMILY LABOUR	693.5 HOURS	$ 6.85/HOUR		4750.48	23.63	1.77
DEPRECIATION (BLDG.+EQUIP.)				16229.75	80.75	6.04
▲▲▲TOTAL NON-CASH COSTS▲▲▲				39252.60	195.29	14.61
B.TOTAL PRODUCTION COSTS				159532.72	793.70	59.37
C.RETURN TO EQUITY (A-B)				-36129.48	-179.75	-13.45

HEAD HANDLED	2668.3	DEATHLOSS o/o	1.3	CWT.LIVE WGHT.	998.2		
WEAN.SOLD/SOW	11.9	AV.WEANER WT.	37.3	NO.WEAN.EQUIV.	2686.9	LBS.FEED/SOW	3965.8
LBS.FD/WEAN.EQ	296.7	HOME FEED o/o	54.2	HOG RECPT.o/o	91.8	SOWS	201.0
SOWS/BOAR	19.5	REPLACE GILTS	24.0	PGLTS WND/SOW	17.0	WNR AGE(DAYS)	32.3
GRS.MARGIN/WNR	1.2	NET INCOME/WNR	-4.9	EQUITY INT.o/o	-34.9	INVEST.INT.o/o	-3.4

ESTIMATED RETURNS AND COSTS OF HOG PRODUCTION IN ALBERTA

TYPE OF ENTERPRISE: FARROW-WEAN FOR: > 3000 SIZE

					TOTAL	PER SOW	PER WEANER EQUIV.
RETURNS:							
225	▲MARKET HOGS	366.4	CWT DRS	$ 84.94/CWT	31125.00	69.32	5.57
87	SOWS	253.1	CWT DRS	$ 71.74/CWT	18157.50	40.44	3.25
3	BOARS	7.8	CWT DRS	$ 87.90/CWT	690.00	1.54	0.12
4009	▲WEANERS	4009.0	HEAD	$ 50.00/HEAD	200450.00	446.44	35.89
	▲FEEDERS		HEAD	$ /HEAD			
75	▲BREEDING STOCK	75.0	HEAD	$200.00/HEAD	15000.00	33.41	2.69
GOVERNMENT SUPPORT PAYMENTS							
INV.CHANGE(SOW,GIL,FDRS,WNR					23795.68	53.00	4.26
OTHER RECEIPTS							
A.GROSS INCOME					289218.18	644.14	51.78
FEED COSTS:							
BARLEY		217.7	TONNES	$107.76/TONNE	23459.94	52.25	4.20
OTHER GRAINS		126.1	TONNES	$104.68/TONNE	13199.73	29.40	2.36
	/ DRY SOW RATION		TONNES	$ /TONNE			
35	*/* NURSING SOW RATN	172.4	TONNES	$290.00/TONNE	50000.00	111.36	8.95
	/ PRE-STARTER RATN		TONNES	$ /TONNE			
18	*/* STARTER RATION	120.7	TONNES	$289.98/TONNE	35000.00	77.95	6.27
	/ GROWER RATION		TONNES	$ /TONNE			
	/ FINISHER RATION		TONNES	$ /TONNE			
	/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
	/ PROTEIN SUPPLMNT		TONNES	$ /TONNE			
	/ RAPESEED MEAL		TONNES	$ /TONNE			
48	*/* SOYABEAN MEAL	48.0	TONNES	$350.00/TONNE	16800.00	37.42	3.01
VIT.+MINERALS+SALT+LIMESTNE		15.0	TONNES	$ /TONNE	4398.00	9.80	0.79
FEED PROCESSING			TONNES	$ /TONNE			
FEED TRUCKING COSTS			TONNES	$ /TONNE			
OTHER FEED ITEMS			TONNES	$ /TONNE			
TOTAL FEED COSTS					142857.67	318.17	25.57
OTHER CASH COSTS:							
WEANERS			HEAD	$ /HEAD			
FEEDERS			HEAD	$ /HEAD			
GILTS			HEAD	$ /HEAD			
BOARS		7.5	HEAD	$400.00/HEAD	3000.00	6.68	0.54
BEDDING		9.2	TONNES	$ 21.70/TONNE	199.63	0.44	0.04
VET.+MED.,CHEM.+DISINFECT.					5213.09	11.61	0.93
MANURE DISPOSAL (IF HIRED)							
HIRED LABOUR		6772.5	HOURS	$ 5.69/HOUR	38537.22	85.83	6.90
HOG TRUCKING COSTS							
MARKETING & ASSEMBLY CHARG.					859.50	1.91	0.15
TAXES,INSURANCES & UTILIT.					19553.84	43.55	3.50
MACH.BLDG.EQP. OPERTNG.+REP					4962.17	11.05	0.89
ACCTNG,PROF,DUES + MISC.					25.00	0.06	
INTEREST-OPR.LOAN!LVSTK,FEED ETC.(15.5*/*)					8223.07	18.31	1.47
PAID INTEREST-CAPITAL LOANS					48670.00	108.40	8.71
OTHER CASH COSTS					129243.53	287.85	23.14
▲▲▲TOTAL CASH COSTS▲▲▲					272101.20	606.02	48.71
NON-CASH COSTS:							
OPERATOR'S LABOUR		3110.6	HOURS	$ 6.85/HOUR	21307.78	47.46	3.81
FAMILY LABOUR		1211.5	HOURS	$ 3.43/HOUR	4155.45	9.25	0.74
DEPRECIATION (BLDG.+EQUIP.)					22576.22	50.28	4.04
▲▲▲TOTAL NON-CASH COSTS▲▲▲					48039.45	106.99	8.60
B.TOTAL PRODUCTION COSTS					320140.65	713.01	57.31
C.RETURN TO EQUITY (A-B)					-30922.47	-68.87	-5.54

HEAD HANDLED	5360.5	DEATHLOSS o/o	1.8	CWT.LIVE WGHT.	2213.2		
WEAN.SOLD/SOW	8.9	AV.WEANER WT.	39.0	NO.WEAN.EQUIV.	5585.8	LBS.FEED/SOW	3435.7
LBS.FD/WEAN.EQ	276.2	HOME FEED o/o	28.2	HOG RECPT.o/o	98.9	SOWS	449.0
SOWS/BOAR	29.0	REPLACE GILTS	37.5	PGLTS WND/SOW	16.7	WND AGE(DAYS)	21.5

ORS.MARGIN/WNR	3.1	NET INCOME/WNR	-1.0	EQUITY INT.o/o	-12.7	INVEST.INT.o/o	3.1

POOR

QUALITY

ORIGINAL